AI-DRIVEN ENTREPRENEURSHIP

STRATEGIES FOR FINANCIAL SUCCESS IN STARTUPS AND ECONOMIES

Editors:
Narendra Kumar
Pradipta Banerjee

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AI-Driven Entrepreneurship: Strategies for Financial Success in Startups and Economies

Edited by

Narendra Kumar
Department of Management Studies
Kumaun University
Nainital, Uttarakhand
India

&

Pradipta Banerjee
Department of Commerce
Department of Business Administration
SKB University
Purulia, West Bengal
India

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Editors: Narendra Kumar and Pradipta Banerjee

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FOREWORD

The rapid advancement of Artificial Intelligence (AI) has profoundly impacted every facet of human life, reshaping industries, transforming businesses, and redefining the global economic landscape. At the intersection of AI and entrepreneurship lies a unique and powerful synergy that offers unprecedented opportunities for innovation, efficiency, and financial success. This edited volume, ***AI-Driven Entrepreneurship: Strategies for Financial Success in Startups and Economies,*** serves as a timely exploration of this transformative paradigm.

In an era characterized by relentless technological evolution, startups and entrepreneurs are uniquely positioned to leverage AI to create competitive advantages. From predictive analytics and customer insights to operational optimization and personalized solutions, the potential of AI is vast and multifaceted. This book delves into these possibilities, offering a multidisciplinary perspective on how entrepreneurs can harness AI to achieve sustainable growth and navigate the complexities of modern markets.

The contributions to this volume come from a diverse group of academicians, research scholars, and social scientists across various disciplines, including Commerce, Economics, and Management. Each chapter embodies a commitment to originality and rigor, presenting unpublished research, articles, and case studies that illuminate the theoretical and practical dimensions of AI-driven entrepreneurship. The breadth of perspectives ensures that this book not only addresses the needs of entrepreneurs but also provides valuable insights for policymakers, educators, and researchers seeking to understand the economic implications of AI.

As editors, Professors Pradipta Banerjee and Dr. Narendra Kumar have curated a collection that bridges the gap between academic inquiry and practical application. Their vision underscores the book's dual aim: to inspire entrepreneurs to embrace the opportunities presented by AI and to empower them with strategies to overcome its challenges. By doing so, the volume aspires to contribute to a global entrepreneurial ecosystem that is both innovative and inclusive.

This book arrives at a critical juncture when businesses worldwide are grappling with uncertainty and seeking resilience through technological adoption. It is my belief that the insights presented here will act as a beacon of guidance, enabling entrepreneurs to unlock the immense potential of AI while driving financial success and fostering economic development. Moreover, I commend the editors and contributors for their dedication to this endeavor and invite readers to immerse themselves in this enriching body of work.

Ganga Prasad Prasain
Tripura University (A Central University)
Suryamaninagar - 799022
Tripura, India

PREFACE

It is a matter of great pleasure and extreme privilege for us to place before the valued and learned academicians, professionals, researchers, and students the edited book titled 'AI-Driven Entrepreneurship: Strategies for Financial Success in Startups and Economies'. The transformative power of Artificial Intelligence (AI) has redefined the entrepreneurial landscape of the globe, posing challenges as well as fostering unprecedented opportunities. As startups and economies strive to navigate an era of rapid technological evolution, AI emerges as a key enabler for innovation, operational efficiency, and financial success, both in the short term and the long term. Recognizing this shift, the present volume aims to explore the intricate relationship between AI and entrepreneurship through a multidisciplinary lens and is expected to serve as a repository of cutting-edge research, insights, and case studies, shedding light on the multidimensional opportunities and challenges presented by AI-driven entrepreneurship.

The book brings together an array of unpublished and original research papers, articles, and case studies from a diverse cohort of academicians, research scholars, corporate leaders, and social scientists from disciplines like Commerce, Economics, and Management, aiming to curate a holistic compendium that delves into the theme of AI-driven entrepreneurship from multidisciplinary perspectives. From strategy formulation to financial planning, the book addresses key aspects of leveraging AI for startup success, while also examining its broader implications for the economic development of nations around the globe. The response to this initiative was overwhelming, with high-quality submissions from various parts of the world, including Spain, Nepal, and a multitude of academic institutions and professional bodies across India. The resulting contributions represent a wide array of theoretical frameworks, empirical analyses, and practical insights into different dimensions of the focal theme of the book, making this piece of work a comprehensive resource for both academic and professional readers.

Besides, the chapters included in this volume underscore the transformative potential of AI in entrepreneurship. They examine its applications across various domains, including social media, human capital management, financial risk mitigation, digital marketing, healthcare, and niche areas, such as rural tourism and online gambling platforms. These studies highlight the diverse ways AI tools and strategies are being leveraged to enhance operational efficiency, optimize costs, mitigate risks, and unlock new opportunities for innovation and growth. The topics covered reflect the broad applicability of AI in driving financial success and fostering resilience in startups, as well as its role in addressing challenges in specific economic and cultural contexts.

The research works in this volume explore how AI is influencing entrepreneurial strategies in both emerging economies and established markets. The contributions examine its impact on payment ecosystems, its ability to drive innovation in financial technology, and its role in redefining workforce management through automation and data analytics. Furthermore, the studies delve into the integration of AI in formulating digital marketing strategies, providing tools and insights for startups that enable them to enhance their market presence and customer engagement. Additionally, the volume offers perspectives on how AI is shaping the tourism sector, healthcare services, and even ethical considerations surrounding its applications in industries like online gambling.

The diversity of the contributions in this volume not only underscores the pervasive influence of AI but also highlights the ingenuity of researchers and practitioners in harnessing the

potential of AI to solve complex challenges and capitalize on emerging opportunities. The contributors, hailing from varied geographical and professional backgrounds, have enriched the academic discourse by offering perspectives that are as diverse as the subject matter itself. From theoretical explorations to empirical studies, the chapters collectively illuminate the transformative potential of AI in shaping the entrepreneurial landscape of the future.

This book is designed to serve as a valuable resource for a wider group of readers, including academicians, researchers, students, corporate strategists, and policymakers. By offering both conceptual and practical insights, the present volume aims to empower readers with the knowledge and tools needed to navigate the evolving landscape of AI-driven entrepreneurship. As technological advancements continue to redefine the entrepreneurial ecosystem, we hope this volume will inspire and guide readers to harness AI in achieving and sustaining financial success and corporate sustainability.

We extend our heartfelt gratitude to all the contributors for their diligent efforts in contributing enriched and insightful research works, without which this academic endeavour would not be a meaningful and fruitful one. We also acknowledge the support of Bentham Science Books, whose commitment to publishing quality academic works has enabled us to bring this vision to fruition. It is our sincere hope that this book will spark meaningful discussions, inspire innovative practices, and contribute to the burgeoning field of AI-driven entrepreneurship in a meaningful way.

Dr. Narendra Kumar
Department of Management Studies
Kumaun University, Nainital, Uttarakhand, India

&

Dr. Pradipta Banerjee
Department of Commerce
Department of Business Administration
SKB University, Purulia, West Bengal, India

List of Contributors

Ajit Kumar Sabat	School of Management, Centurion University of Technology and Management, Bhubaneswar Campus, Odisha, India
Anita Kumari	Department of Commerce, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh, India
Atanu Talukdar	Koneru Lakshmaiah Education Foundation (Deemed to be University), Green Fields, Vaddeswaram, Guntur, Andhra Pradesh, India
Aditya Prasad Sahoo	Department of Commerce, Ravenshaw University, Cuttack, Odisha, India
Akshay M	School of Management Studies, Cochin University of Science and Technology, Kochi, Kerala, India
B. Vamsi Krishna	MBA Department, KL Business School,Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur, Andhra Pradesh, India
Ch. Anudeep	Department of Management, Shri Vishnu Engineering College for Women (A), Bhimavaram, West Godavari, Andhra Pradesh, India
Dhananjoy Ghosh	Department of Business Administration (Human Resource), The University of Burdwan, India
Debabrata Sharma	Department of Finance, Biju Patnaik Institute of Information Technology and Management Studies, Odisha, India
Jose Jesus Delgado Pena	Universidad de Malaga, Spain
Jyoti Gupta	Department of Management, Faculty of Social Science, Dayalbagh Educational Institute, India
K. Hema Divya	MBA Department, KL Business School,Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur, Andhra Pradesh, India
K.V. Rama Murthy	Department of Management, Shri Vishnu Engineering College for Women (A), Bhimavaram, West Godavari, Andhra Pradesh, India
Kishore Kumar Das	Department of Commerce, School of Commerce and Management, Ravenshaw University, Cuttack, Odisha, India
Kousik Mandal	Department of Business Administration, Vidyasagar University, India
Monika Thapa	Uniglobe College (Pokhara University Affiliate), Kathmandu, Nepal
Meenakshi Chawla	St. John's College, Agra, India
Nirmal Chandra Roy	Department of Business Administration (Human Resource), The University of Burdwan, India
Nilanjan Ray	Faculty of Management Studies, JIS University, India
Nisa James	School of Management Studies, Cochin University of Science and Technology, Kochi, Kerala, India
Pooja Thakur	Shri Rajendra Suri Government College (DAVV), Dhar, Madhya Pradesh, India
Priyanka Chawla	Prestige Institute of Management and Research, Gwalior, India

CHAPTER 1

Impact of Entrepreneurship on the Growth of Future India: Remodeling of Startups with Artificial Intelligence

Rupak Karmakar[1,*]

[1] *Department of Commerce & Management, Barasat College, West Bengal, India*

Abstract: The term entrepreneur is like the creative mind that dreams big and turns those dreams into reality. On the other hand, entrepreneurship fuels innovation and creates structure in economic growth. In the future, innovation will be the key driver that takes economic development to new heights. Entrepreneurship not only generates numerous employment opportunities but also helps improve the quality of life. For a country, entrepreneurship can be a path to economic independence. It has the potential to lift people out of poverty and transform the nation into a developing economy. Recently, governments and businesses have promoted startups to support economic growth and future development. As we know, the world is changing rapidly, and the economy is evolving alongside it. Therefore, this chapter focuses on how entrepreneurship fosters positive change, faces challenges, and how startups are shaping the new India with promising prospects.

Keywords: AI, BHASKAR, Entrepreneur, Startups.

INTRODUCTION

In a developing country like India, entrepreneurship is a vital parameter of economic growth, innovation, and job creation. Due to various government initiatives over the past decades, India's entrepreneurial ecosystem has evolved significantly. Entrepreneurship depends on three pillars: skill, knowledge, and support. The entrepreneurship development programs have focused on youth, who need good job opportunities. With the rise of the internet and the increase in digital transactions in India, a large number of entrepreneurial activities are taking place. One of the key factors driving entrepreneurship growth in India is the availability of a substantial source of venture capital. During economic policy

* **Corresponding author Rupak Karmakar:** Department of Commerce & Management, Barasat College, West Bengal, India; E-mail: rkarmakar930@gmail.com

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reforms, India's entrepreneurship underwent significant development. The economic policy is based on three aspects: privatization, liberalization, and globalization. Today, startups are an important sector of entrepreneurship in India. Startups are developing rapidly with the rise of the internet and the growth of tech-savvy entrepreneurs. Some startups have gained global recognition, such as 'Make My Trip' (2000), Flipkart (2007), and Zomato (2008). The Government of India wholeheartedly supports the startup ecosystem. In 2016, the Government launched the Startup India initiative to support this rapidly growing industry worldwide. A report by McKinsey & Company states that AI projects are more likely to yield significant improvements in areas with fewer risks, helping entrepreneurs reduce costs and enhance customer satisfaction.

LITERATURE REVIEW

This study examines the digital transformation of society and the growing presence of Artificial Intelligence (AI) in the business world. It examines how data analytics and AI have become valuable tools for startups, particularly following the COVID-19 pandemic (Gupta & Nihal, 2021). Since the emergence of AI, the Indian economy has changed rapidly. The article explains AI's ability to transform the overall economic landscape and emphasizes the necessity of strategic adoption of AI (Swami & Kumbhar, 2022). Businesses in India have accelerated their growth after implementing AI, and socio-economic conditions have evolved dynamically. The chapter also highlights tactics and best practices used by Indian business authorities (Swami *et al*., 2023). AI plays an integral role in the business world and startups. In society and business, AI is becoming increasingly important, and employees who work with AI tend to receive better recognition. For this reason, the authors specifically highlight the impact of AI on Micro, Small, and Medium Enterprises (MSMEs) (Yaranal & LN, 2023).

In the last couple of years, artificial intelligence has emerged as a vital part of technology worldwide. Startup businesses are increasingly relying on AI-based evaluations. Since the pandemic, the demand for artificial intelligence has grown significantly compared to the previous decade. This article primarily focuses on the development of artificial intelligence (Reddy *et al*., 2024). AI has had a remarkable impact across a wide range of industries, including banking, education, healthcare, and more. Its influence extends beyond business, affecting the social sector as well. This article provides a brief review of AI in the business sector (Panigrahi *et al*. 2024).

OBJECTIVES

The chapter has the following objectives:

1. To examine the impact of entrepreneurship on the growth of future India.
2. To analyze the effect of startups on the Indian economy.
3. To explore the role of artificial intelligence in startups.

METHODOLOGY

This study focuses on two major aspects: entrepreneurship growth in India and the effect of startups on the Indian economy. To achieve the study's objectives, both primary and secondary data have been used. Primary data were collected through a structured questionnaire. We gathered responses from one hundred (100) participants using purposive sampling and analyzed the data using statistical software (SPSS). Secondary data were collected from websites, books, journals, publications, and other relevant sources.

GOVERNMENT SCHEME FOR STARTUPS

In the twenty-first century, entrepreneurship is a transformative force for the nation's economy. According to the Global Entrepreneurship Monitor (GEM) and the National Entrepreneurship Context Index (NECI), India ranks 4th out of 51 countries in terms of the quality of its entrepreneurship ecosystem. Initiatives like the **Startup India Action Plan** provide substantial support for entrepreneurship schemes. Startup India is a program that offers bank loans to support entrepreneurship among scheduled castes, scheduled tribes, and women in establishing new enterprises.

BHASKAR: BHASKAR is a centralized digital platform designed to bring together startups, investors, service providers, mentors, and government bodies to foster collaboration, knowledge sharing, and innovation across India's rapidly growing startup ecosystem, including Tier 2 and Tier 3 cities. The Central Government of India categorizes cities into four major tiers: Tier 1, Tier 2, Tier 3, and Tier 4. These classifications are based on factors, such as population size, infrastructure development, economic growth, and standard of living.

Key features

a. This platform helps investors, mentors, and students register and communicate with each other.
b. The BHASKAR scheme promotes sector-wise growth and cooperation within the startup ecosystem.

CHAPTER 2

Impact of AI-enabled Social Media on Rural Tourism Entrepreneurship: An Empirical Study on Sundarbans, West Bengal

Dhananjoy Ghosh[1] and **Nirmal Chandra Roy**[1,*]

[1] *Department of Business Administration (Human Resource), The University of Burdwan, India*

Abstract: In India, tourism is one of the budding sectors in terms of the economy and employment. There are several components of the tourism sector, and rural tourism is one of them. Rural tourism allows travellers to experience a wide range of natural and nature-based activities, such as agriculture, fishing, trekking, and climbing. Currently, AI-enabled social media platforms (such as YouTube, Facebook, Instagram, and LinkedIn) play a significant role in promoting tourism businesses in rural India. Through vlogging, blogging, and content creation on social media, a large number of travel and tourism entrepreneurs are successfully running their business operations. In the present chapter, we have selected the Sundarbans of West Bengal as the area of study. The Sundarbans has limited agricultural land, and most people's livelihoods depend on activities, such as fishing, honey collection, and the collection of medicinal plants, all of which fall under rural tourism activities.

This study focuses specifically on rural tourism entrepreneurs operating in the Sundarbans who use AI-based social media as a promotional and revenue-generating tool. Primary data were collected from 117 respondents selected through Snowball sampling. Among them, 19 were social media tourism content creators who also provided tourism services, while the remaining 98 were local entrepreneurs utilizing social media for various business operations. The study further examines the income of tourism businesses before and after integrating AI-enabled social media. After data collection, a normality test and the Wilcoxon Signed-Rank Test were performed. The results demonstrated that AI-enabled social media significantly contributes to the success of rural tourism entrepreneurship. However, factors such as improved infrastructure, favorable government policies, and security also affect income and growth in this sector.

Keywords: Artificial Intelligence (AI), Entrepreneurship, Rural tourism, Social media, Sundarbans, West Bengal.

[*] **Corresponding author Nirmal Chandra Roy:** Department of Business Administration (Human Resource), The University of Burdwan, India; E-mail: ncroy@mbahr.buruniv.ac.in

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INTRODUCTION

In this modern era, Artificial Intelligence (AI) has become a widely recognized topic in the technological workplace. AI is gradually entering our lives through various channels due to the easy availability of information, making our work easier at every step. Recently, AI adoption in the digital workplace has become common, and even social media has not remained untouched by this trend. Today, social media is an integral part of everyone's daily life (Kaplan, 2016). Social media can be defined as a collection of internet-based applications built on the ideology and technical framework of Web 2.0, which allows the creation and exchange of user-generated content (Kaplan & Haenlein, 2009).

The 20th century witnessed a drastic change in our economic and social environment, driven both directly and indirectly by social media (Kaplan & Haenlein, 2009). The early 21st century marked the golden period for many major social media platforms (Kumar & Mishra, 2015). Numerous social media applications have gained popularity over the years, often replacing one another in the digital communication market. Examples include Six Degrees, Myspace, LinkedIn, Facebook, YouTube, WhatsApp, Instagram, Snapchat, and TikTok (Boyd & Ellison, 2007).

Currently, popular social media platforms such as Facebook, Instagram, WhatsApp, and LinkedIn process large volumes of data, identify trends and patterns, manage user interactions, create content, and much more by integrating AI into their systems (Jones, 2024). AI-enabled features, such as automated responses, content creation, content tracking, voice and video calling, messaging, content sharing, vlogging, blogging, money transactions, and post management, have made these apps highly relevant in our daily lives (Kumar & Mishra, 2015).

As a result, entrepreneurs who adopt AI-enabled social media platforms, such as Facebook, Instagram, Telegram, and Snapchat, benefit greatly. It has become much easier for them to automate various operations, such as responding to customers in their absence through pre-set chatbot responses, which aids in managing interactions and handling queries effectively (Mohamed *et al*., 2024; Brown *et al*., 2020).

In this way, AI is gradually establishing itself in a broader perspective, transforming social media into an automated marketplace for various activities. Users are increasingly exposed to new opportunities, gaining access to targeted information, and flourishing in business through this virtual marketplace. This level of accessibility and coverage attracts young individuals who view social media as a means of earning a living through vlogging, page creation, product selling, and other means, especially in a struggling job market, allowing them to

change their unemployed status in society (Marwick & Boyd, 2011; Sebastião, 2013). Consequently, a significant number of social media content creators have emerged in recent years. Meanwhile, users enjoy endless content options on social media tailored to their interests, all free of cost (Price, 2024; Forani, 2023). Social media has now become a significant source of references and information, serving as a strong guide for brand choices (Singh *et al*., 2021). YouTube channels and Facebook pages act as vast information bases in various fields for viewers while also providing income opportunities for page creators and vloggers. The viewership of any content generates income for content creators (Meta, n.d.; Simonson, 2024). The growing popularity of social media as an impactful communication tool has transformed promotional trends in both the goods and service industries (CNBC-TV18, 2022).

The Indian tourism sector is one of the oldest and fastest-growing sectors in the Indian economy. Currently, among all tourism types, rural tourism is receiving increasing attention, as 74% of the Indian population is part of the rural economy and is seeking opportunities, leading to a steady migration, which is a significant concern (Utami *et al*., 2023). The importance of rural tourism lies in its role in creating employment, generating income, linking activities with value creation, balancing wealth distribution, and exploring unused resources (Kar & Sahoo, 2016). Rural tourism is closely linked to entrepreneurial activities rooted in rural life, generating income opportunities and driving economic development (Utami *et al*., 2023). It can be described as a livelihood strategy for rural populations who often face limited economic support (Karlsdóttir *et al*., 2017), helping to improve the standard of living within local communities (Leu, 2019). However, in India, rural tourism has yet to reach its full potential, as many people remain unaware of local tourism destinations and their unique features. In some cases, this is due to insufficient promotion by government and private organizations (Karlsdóttir *et al*., 2017).

The COVID-19 pandemic, while challenging for the tourism sector, acted as a catalyst for the Fourth Industrial Revolution, offering new opportunities and innovative solutions to tourism-related problems. During lockdowns and movement restrictions, people had very limited travel options (Kumar & Reddy, 2022). Even in the post-COVID-19 period, cross-border tourism remained restricted, resulting in a significant increase in time spent on social media due to the increased availability of free time. Consequently, there has been a gradual shift in consumer behavior within the tourism industry, with more people preferring short trips or visits to nearby locations to refresh their minds and seek enjoyment. Consequently, following the COVID-19 pandemic, most contributions to tourism have come from rural areas (Kumar & Reddy, 2022; Christou, 2016; Statista, 2025). Recognizing this opportunity, a group of modern entrepreneurs is

CHAPTER 3

Analyzing the Impact of Artificial Intelligence on UPI Adoption and Start-Up Growth: A Study of Transaction Efficiency and Consumer Behaviour

Rupsa Mahapatra[1,*], Ajit Kumar Sabat[2], Sonali Mohapatra[3] and **Rajani Agrawalla[2]**

[1] *Department of Commerce, MPC Autonomous College, Takhatpur, Baripada, Odisha, India*

[2] *School of Management, Centurion University of Technology and Management, Bhubaneswar Campus, Odisha, India*

[3] *KIIT University, Bhubaneswar, Odisha, India*

Abstract: The financial industry has seen a significant transformation thanks to the incorporation of Artificial Intelligence (AI) into Unified Payments Interface (UPI) systems, which is especially advantageous for startups. UPI has become an even more alluring payment platform for users as a result of AI's role in optimizing transaction procedures, which has greatly improved transaction speed, accuracy, and system stability. AI-driven improvements over the last ten years have shortened transaction times and increased system uptime, resulting in a more seamless customer experience overall. The quick rise in UPI adoption and user engagement has been directly attributed to this efficiency, as well as AI's capacity to manage high transaction volumes. Furthermore, AI has significantly enhanced UPI systems' capacity to detect fraud, which has significantly decreased the number of fraud instances. Due to the mitigation of security issues by real-time monitoring and sophisticated fraud prevention methods, this enhancement has encouraged support towards consumer trust. Improved security has not only given customers greater trust, but it has also enabled startups to offer more dependable and secure services, which has further boosted UPI's user base and market penetration. AI has sparked innovation and accelerated startup growth by enabling financial companies to provide individualized services and maximize operational efficiencies. Fintech companies have been able to stand out in a crowded market by using AI-powered chatbots, predictive analytics, and automated fraud detection. Consequently, numerous businesses have witnessed noteworthy increases in their income and market share. AI has been essential to companies' success in the financial environment since it helps them grow their operations and provide creative, user-centric solutions. Due to AI's improvements to the UPI system, consumer satisfaction has also significantly increased. Users are now more engaged and satisfied

[*] **Corresponding author Rupsa Mahapatra:** Department of Commerce, MPC Autonomous College, Takhatpur, Baripada, Odisha, India; E-mail: drmahapatra.rupsa@gmail.com

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owing to AI-enhanced features, including faster transaction processing, secure platforms, and personalized services. Users are increasingly turning to UPI for their digital payment needs, a shift in consumer behavior that underscores the broader trend of AI's impact on fintech adoption and customer trust. In conclusion, by boosting transaction efficiency, enhancing fraud detection, and encouraging startup innovation, AI's incorporation into UPI has completely transformed digital payment systems. The impact of AI on fintech firms is likely to grow as it develops, spurring further innovation and supporting the ongoing evolution of the digital payment environment.

Keywords: Artificial intelligence, Adoption, Start-up, UPI.

INTRODUCTION

Background of UPI and its Growth

One of the innovations that has had the most significant impact on India's financial landscape is the Unified Payments Interface (UPI), which has revolutionized the way people and companies conduct digital transactions. UPI is a mobile-based platform that facilitates smooth and instantaneous payments by integrating various bank accounts. It was introduced by the National Payments Corporation of India (NPCI) in 2016. With approximately 9.41 billion transactions, valued at ₹15.34 trillion, processed on the platform in May 2023, UPI has experienced exponential growth (NPCI, 2023). This enormous transaction volume underscores UPI's pivotal role in promoting the cashless economy envisioned by the Digital India plan (Reserve Bank of India, 2022). UPI was created with the intention of advancing financial inclusion by providing millions of underbanked and unbanked people in the nation with access to banking services. UPI adoption was further accelerated by the government's 2016 demonetization push and subsequent initiatives to reduce dependency on cash-based transactions (RBI, 2017). For peer-to-peer (P2P) and peer-to-merchant (P2M) payments, UPI is the recommended option because of its convenience and the removal of middleman fees. The platform is a key component of India's expanding digital economy due to its capacity to facilitate quick, secure, and interoperable transactions.

Role of Artificial Intelligence (AI) in UPI

As UPI is growing rapidly, integrating Artificial Intelligence (AI) has become essential to scaling the platform to meet the needs of an expanding user base. The efficiency, security, and customer experience of UPI transactions have all been improved by the use of AI technologies. Fraud detection and prevention is one of the main areas where artificial intelligence has had a revolutionary impact. Massive volumes of transactional data are analyzed by AI-powered systems using

machine learning algorithms, which enable them to spot suspicious trends and instantly flag potential fraud. As a result, UPI's security infrastructure has been significantly enhanced, reducing the likelihood of fraudulent activity and increasing user confidence (RBI, 2020). To ensure that payments are handled through the most effective channels, even during times of severe network congestion, Artificial Intelligence (AI) is also essential for transaction routing and optimization. As a result, UPI can now process transactions more quickly and reliably than it could with conventional payment systems (PIB, 2025). AI has also aided in the creation of chatbots that utilize Natural Language Processing (NLP) to assist users with transaction issues, payment status checks, and personalized recommendations. With its ability to streamline processes and lessen the workload for human customer support staff, these AI-powered solutions have become essential to the user experience (McKinsey & Company, 2021a).

Linking AI with Consumer Behavior

It is impossible to overstate the significant impact of AI on customer behavior within the UPI ecosystem. UPI platforms can now offer customized experiences tailored to the interests of individual users, thanks to AI technologies. Artificial Intelligence (AI) algorithms can enhance user engagement by offering personalized recommendations, timely bill payment reminders, and customized promotional offers based on user data analysis (McKinsey & Company, 2021b). As consumers increasingly expect digital payment platforms to anticipate their needs and provide contextually appropriate solutions, this level of personalization has been found to boost user satisfaction and loyalty (McKinsey & Company, 2021a). Moreover, chatbots and virtual assistants have enhanced customer service thanks to AI. These AI systems help users in real-time by guiding them through problem-solving techniques, responding to frequently asked questions, and guaranteeing seamless transactions. AI-powered customer care solutions have been integrated into platforms like Paytm and PhonePe, greatly speeding up response times and lowering the requirement for human interaction. This makes using digital payment networks like UPI easier and more frictionless for users, which increases their trust (RBI, 2022). Consumer adoption of UPI has been largely influenced by the perceived convenience and security provided by AI-enhanced features. Users are becoming increasingly comfortable utilizing UPI for both small and large transactions as AI-powered fraud detection systems advance (Kaggle, 2023). This has led to increased adoption rates, with more customers using UPI as their primary means of making digital payments.

CHAPTER 4

Artificial Intelligence as a Catalyst for Innovation in Startups and Finance

Anita Kumari[1] and **Pooja Thakur**[2,*]

[1] *Department of Commerce, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh, India*

[2] *Shri Rajendra Suri Government College (DAVV), Dhar, Madhya Pradesh, India*

Abstract: Artificial Intelligence is rapidly emerging as a critical driver for innovation in startups and finance, revolutionizing traditional business models and financial processes. This chapter explores the dynamic role of AI in fostering innovation, emphasizing its ability to enhance product development, streamline operations, and create competitive advantages for startups. It highlights AI's transformative impact on financial strategies, from automating routine tasks to improving decision-making processes through predictive analytics. The paper also examines key challenges, including ethical concerns, data limitations, and regulatory complexities that hinder AI's full potential in finance. Through case studies, the research underscores the importance of AI-driven business model innovation and strategic partnerships in ensuring long-term success. By providing a comprehensive overview of recent trends and developments, this study offers insights into both the opportunities and challenges that AI presents, laying the groundwork for further exploration in the intersection of AI, startups, and finance.

Keywords: Artificial Intelligence (AI), Business, Entrepreneur, Finance, Startups.

INTRODUCTION

Industry 4.0 represents a transformative phase characterized by the fusion of advanced digital technologies across industries (Sharma *et al*., 2024). Among these, Artificial Intelligence (AI) has emerged as a pivotal general-purpose technology, enabling systems to perform human-like cognitive tasks, such as reasoning, decision-making, and learning (Gofman & Jin, 2023; Aghion *et al*., 2018). With its expanding capabilities, AI is increasingly embedded in various sectors, including finance, healthcare, education, marketing, and enterprise innovation (Rahman & Watanobe, 2023; Labib, 2024; Bahoo *et al*., 2024). Startups, in particular, are leveraging AI to gain a competitive edge by integrating

[*] **Corresponding author Pooja Thakur:** Shri Rajendra Suri Government College (DAVV), Dhar, Madhya Pradesh, India; E-mail: poojathakur7024@gmail.com

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it into core processes, such as product development, consumer analysis, and financial management (Korzynski *et al*., 2023; Hossain R.M. *et al*. 2024; Chen *et al*., 2023).

The integration of AI into the startup ecosystem is creating new pathways for innovation and value creation. As AI technologies, such as machine learning, natural language processing, and predictive analytics, become more accessible, startups are using them to optimize operational efficiency and develop scalable business models. These technologies help organizations assess customer behavior, forecast market trends, and refine pricing and investment decisions with greater accuracy (Bahoo *et al*., 2024; Deloitte, 2024). AI-supported financial planning systems enable firms to streamline cash flow, improve forecasting, and reduce planning cycles, which is critical for new ventures operating in dynamic and uncertain markets (Huang & You, 2023). In addition, AI-driven personalization tools allow businesses to tailor marketing strategies and product recommendations based on consumer preferences, thereby enhancing customer retention and satisfaction (Labib, 2024; Hue & Hung, 2025). Research suggests that consumers are more likely to engage with brands that offer personalized experiences, positioning AI as a vital asset for startups looking to build strong customer relationships and brand loyalty (Luxonomy, 2025; Deryl *et al*., 2023).

In the broader economic context, AI is projected to make a significant contribution to global productivity and GDP growth by 2030. It is estimated to add approximately $15.7 trillion to the global economy, with product improvements and labour efficiency identified as key drivers of this growth (PwC, 2025), (Broby, 2022). Countries, such as China and the United States, are expected to benefit the most due to their substantial investments in AI infrastructure and innovation. At the same time, regions with lower AI adoption may experience more modest gains (Cerutti *et al*., 2025; PwC, 2025). The rapid advancement of AI is also reshaping labour markets by increasing demand for skilled professionals while automating routine tasks, raising important questions about employment and workforce adaptability (Acemoglu & Restrepo, 2020; Ernst *et al*. 2019). Currently, predictive analytical tools utilize statistical methods and machine learning algorithms to analyze past data and predict future outcomes (Broby, 2022). AI has also emerged as a disruptive General-Purpose Technology (GPT), capable of transforming numerous aspects of life and fostering economic growth (Aghion *et al*., 2018). As leading global corporations and nations compete for supremacy in AI technology, it has swiftly become a crucial element in the Fourth Industrial Revolution (Gofman & Jin, 2023). Moreover, challenges, such as data privacy, ethical governance, and access to technical expertise, remain significant, especially for startups operating with limited resources and regulatory knowledge (Bahoo *et al*., 2024; Giuggioli *et al*., 2024).

In light of these developments, this chapter will explore the revolutionary potential of AI in transforming the financial strategies of startups. This study aims to examine the evolving role of AI in transforming startup financing models, investigate how AI-driven insights contribute to product innovation, and identify key opportunities and challenges associated with the adoption of AI in startup ecosystems.

LITERATURE REVIEW

AI empowers startups to improve financial decision-making through machine learning algorithms and predictive analytics. These tools allow startups to examine historical and real-time data to forecast future trends, thereby enhancing strategic decisions concerning investment and resource allocation (Gupta *et al*., 2024; Abuzaid & Alsbou, 2024). Developments in finance, related to predictive analytics and text mining, have also been explored (Das, 2014). A comprehensive review of the financial fraud detection literature categorizes studies by the algorithm used, the type of fraud addressed, and the effectiveness of detection techniques (West & Bhattacharya, 2016).

In contexts where startups may lack deep market experience or financial expertise, AI plays a vital role in mitigating decision-making biases (McKinsey, 2021). A thematic literature review on FinTech identifies three major focus areas: the financial sector, innovation and technology, and legal or regulatory frameworks (Sangwan, 2019; Huang & You, 2023). The role of AI in investment management, particularly regarding exchange-traded funds, further illustrates its cross-sectoral impact (Miziołek, 2021). A significant benefit of AI for startups lies in enhanced customer engagement. By analyzing consumer behavior data, AI enables firms to deliver personalized customer experiences, which can lead to increased revenue (Bessen, 2018). Startups with limited marketing budgets particularly benefit from AI tools that automate customer segmentation and targeted marketing strategies (Collins, 2023). These trends reflect AI's capacity to disrupt traditional business models and strategies.

AI-driven financial strategies help startups to streamline operations, improve decision-making, and strengthen competitiveness (Marcon & Ribeiro, 2021). Research confirms that AI's ability to process large datasets and generate actionable insights is especially beneficial for startups operating with limited resources (Bakovic, 2021). AI also automates key financial tasks, such as budgeting, forecasting, and managing cash flows, thereby enhancing efficiency, accuracy, and flexibility in financial planning (Chen *et al*., 2023).

The growth of AI technologies is driven by the availability of vast unstructured data (PwC, 2020), advancements in computing power, and increased venture

CHAPTER 5

AI-Driven Human Capital Management and Financial Risk Mitigation: A Micro-Level Study on Optimizing Workforce Costs and Startup Resilience

Shyamasundar Tripathy[1,*], K. Hema Divya[1], B. Vamsi Krishna[1] and **Atanu Talukdar[2]**

[1] MBA Department, KL Business School,Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur, Andhra Pradesh, India

[2] Koneru Lakshmaiah Education Foundation (Deemed to be University), Green Fields, Vaddeswaram, Guntur, Andhra Pradesh, India

Abstract: AI is changing the face of Human Capital Management (HCM) in this dynamic era, where enterprises are transforming digitally and embracing cutting-edge technology to optimize costs related to workforce and drive organizational resilience. The study considers 5 major Indian cities – Bengaluru, Hyderabad, Mumbai, Delhi-NCR, and Pune, which are the main hubs of startups in India, to analyze how AI-driven HCM helps startups reduce financial risks. While startups might not have the financial resources, they are more nimble and agile to utilize AI in creating a more efficient workforce, forecasting future talent needs, and making hiring scalable. This research applies a mixed-method approach to examining the qualitative and quantitative effects of AI integration into HCM. Specifically, the research gathers data through quantitative surveys and qualitative interviews with start-up founders, human resource managers, and AI experts, as well as surveys from employees in AI-driven and tech-based companies. The findings aim to reveal the effects of AI on labor cost structure and risk management strategies through its impact on predictive analytics, talent acquisition, and workforce optimization systems, among others. In addition, the study investigates the potential of AI as a means for startups to enhance financial sustainability and resilience to market shocks. Apart from leaders of startups contemplating how to incorporate AI into their human capital strategy for low job risks and higher optimization, the research can be of anecdotal value to policymakers exploring how AI can disrupt startups, and with examples, use major Indian cities as a reference point.

Keywords: Artificial intelligence, Financial risk mitigation, Human capital management, Indian startup, Startup resilience, Workforce optimisation.

[*] **Corresponding author Shyamasundar Tripathy:** MBA Department, KL Business School,Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur, Andhra Pradesh, India;
E-mail: shyamasundar.tripathy33@gmail.com

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INTRODUCTION

The shifts in technology are improving the operations of every organization, and Human Capital Management (HCM) is not an exception. New entrants in the market seeking to reduce costs of payroll, increase output, and minimize financial risk will find that AI offers the best solution (Kaiser & Müller, 2015). These companies are better prepared for the selection processes or recruitment drives due to rational workforce distribution assisted by these tools. This is particularly true for emerging firms in resource-strapped regions. Facilitating access to AI-driven HCM that enhances operational resilience, particularly in emergent resource-scarce areas, supports their operations. In this AI integrating HCM, greatly in increasing automation, novel systems will be described, along with their importance in containing financial risk, and how different Indian cities' startups are utilizing AI to sustain and grow their businesses (Kong *et al*. 2021).

The Role of AI in Human Capital Management

The development of AI has fundamentally transformed Human Capital Management (HCM) by automating tedious manual processes, improving decision quality, and streamlining talent-related activities. Technologies include predictive analytics, machine learning, and natural language processing interface with numerous components of Human Capital Management (HCM)—ranging from talent acquisition and performance evaluation to employee engagement and comprehensive workforce planning (Bhatt, 2023). The talent forecasting technology helps organizations gain insight into trending talent. These technologies also provide assistance for critical decision-making such as indentifying gaps in skills, areas where talent is needed, and projecting upcoming changes in demand for certain skills. In addition, these technologies assist in significantly reducing operational expenditure and workforce and are thus beneficial for startups that struggle with a lack of funds and a high attrition rate. AI in HCM systems allows faster operational efficiency, which is instrumental in cost reduction (Álvarez López, 2022; Kanbur *et al*., 2023).

Fast-paced startups, especially in tech-driven regions such as Bengaluru, Hyderabad, and Mumbai, are adopting AI-focused HCM solutions at a rapid pace to stay ahead of the curve in an otherwise volatile market landscape. AI-driven HR technology directs the recruitment process to categorize candidates against job profiles, based on their skill-based and behavioural scores, processing jobs as an applicant retaining flow, thus minimizing time-to-hire with better quality hiring (Dadwal *et al*., 2024). AI can also help reduce the size of human resources teams needed to staff a startup, reducing costs while maintaining efficiency (Setty *et al*., 2024).

Financial Risk Mitigation in Startups

Startups, especially in their early stage, are at very high risk; they can have significant financial risk because of limited cash and recources . Startups are exposed to various types of financial risks, market risks and competition, funding risk and operating inefficiencies that entrepreneurs face (Molton, 2021). All of these risks can be greatly minimized with AI-driven HCM tools, which help startups find the optimal workforce size and control payroll expenses along with employee turnover costs. Predictive analytics is one consideration to help forecast high employee attrition, which enables enterprises to takes advantage of right-staffing positions and minimize interruptions that would put financial health in jeopardy (Kaiser & Müller, 2015).

In startup hubs such as Delhi-NCR and Pune, AI-based workforce optimization tools are being employed to track employee performance, as well as to boost engagement and reduce absenteeism. Alongside, GitHub-style-management tools are emerging, which offer company bosses a real-time overview of how their workers are performing in order to determine its financial viability to keep them employed (Bhatt, 2023). Recognizing workforce needs and aligning them with business objectives is a critical component of early-stage startups; using AI to predict these requirements can help an organization save on capital expenditures that arise from the use of overstaffed or underutilized teams, thereby ensuring optimal resource deployment (Deegan & Armstrong, 2020).

The Indian Startup Ecosystem and AI Adoption

In recent years, India has seen fast-paced growth in the startup ecosystem powered by technology breakthroughs, government initiatives, and expansion of venture capital investments. Startup ecosystems in cities such as Bengaluru, Hyderabad, Mumbai, and Delhi-NCR have evolved rapidly, making them the largest technology and AI hubs (Sudiana *et al*., 2020). Well-established global cities like London, New York, and elsewhere offer a fertile ground for AI-based solutions developed by startups to test out new models in an environment of rich talent, access to advanced technology, and an innovation culture (Weiss, 2016).

The AI is not only being adopted by large-scale enterprises in India startups. More and more, small and medium-sized startups are focusing on Artificial Intelligence (AI) to improve operations within their businesses, especially to manage human capital more effectively. In the modern era, recruitment costs have significantly increased in every sector. To overcome this challenge, AI tools are playing a pivotal role in this connection, also assisting in making better workforce planning and even employee retention (Svetlana *et al*., 2022). In addition, startups can manage financial aspect more smartly with AI-powered workforce optimization

CHAPTER 6

Impression of AI-Powered Financial Prognostication on Business Strategy and Risk Management

K.V. Rama Murthy[1,*] and **Ch. Anudeep**[1]

[1] *Department of Management, Shri Vishnu Engineering College for Women (A), Bhimavaram, West Godavari, Andhra Pradesh, India*

Abstract: This research investigates the impact of AI-driven prognostication analytics on financial forecasting and its implications for business strategy and risk management (Das *et al*., 2024). Data were collected from 200 individuals in the Greater Hyderabad area using an assorted-methods approach, which included inspections and semi-structured interviews. The quantitative analysis reveals significant improvements in the accuracy and efficiency of financial prognostication following the integration of Artificial Intelligence (AI), with a 10% increase in accuracy and a 15% reduction in prognostication errors. ANOVA results show consistent accuracy improvements across various industries. Additionally, correlation analysis reveals a positive relationship between AI implementation and the implementation of advanced risk management approaches. Qualitative insights highlight AI's influence on business planning and proactive risk management. Findings underscore the potential of AI-driven predictive analytics to enhance the resilience and adaptability of businesses in a rapidly evolving environment.

Keywords: Business strategy, Financial prognostication, Risk management.

INTRODUCTION

In recent years, the integration of Artificial Intelligence (AI) into financial forecasting has significantly transformed corporate strategy and risk management. AI-powered financial prognostication leverages advanced algorithms, machine learning, and big data analytics to predict market trends, evaluate financial performance, and identify potential risks with unprecedented accuracy and speed. This technological evolution is reshaping how organizations approach strategic planning, financial decision-making, and risk mitigation.

[*] **Corresponding author K.V. Rama Murthy:** Department of Management, Shri Vishnu Engineering College for Women (A), Bhimavaram, West Godavari, Andhra Pradesh, India;
E-mail: kvrmurthymba@svecw.edu.in, drmurthy1983@gmail.com

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The rise of AI in financial forecasting is driven by its capability to process huge amounts of data, reveal hidden patterns, and generate insights that were previously beyond human analytical capacity (Brynjolfsson & McElheran, 2016). AI systems can analyze real-time market data, Investor behavior, and economic indicators to produce forecasts that help businesses anticipate market shifts and adjust their strategies accordingly (Chui, Manyika, & Miremadi, 2016). Consequently, corporate leaders increasingly rely on these AI-driven insights to formulate strategic plans, allocate resources, and manage risks more effectively.

The impact of AI on corporate strategy is profound. With predictive analytics, companies can develop more accurate financial models, optimize investment decisions, and enhance competitive positioning (Waller & Fawcett, 2013). For example, AI can assist in identifying emerging market opportunities, evaluating the potential success of new products, and refining pricing strategies (Davenport & Ronanki, 2018). This shift from traditional forecasting methods to AI-powered approaches enables firms to gain a strategic edge and respond proactively to dynamic market conditions.

In terms of risk management, AI introduces advanced tools for detecting and mitigating potential threats. AI systems can monitor financial markets for anomalies, assess credit risk with greater precision, and predict operational disruptions (Oğuz, 2024). By incorporating AI into their risk management frameworks, organizations can enhance their ability to foresee and address vulnerabilities, thereby safeguarding their financial stability and operational resilience (Božić, 2025).

As AI continues to evolve, its influence on corporate strategy and risk management is expected to grow. However, the adoption of AI technologies also brings challenges, such as the need for robust data governance, the potential for algorithmic bias, and the requirement for skilled personnel to interpret and act on AI-generated insights (Vancsura, 2025). Addressing these challenges is crucial for organizations to fully leverage the benefits of AI in financial forecasting while minimizing associated risks. AI-driven predictive analytics significantly enhances financial forecasting accuracy and efficiency, leading to improved corporate planning and risk management (Waller & Fawcett, 2013).

LITERATURE REVIEW

IAS, such as the US Generally Accepted Accounting Principles (US GAAP) and International Financial Reporting Standards (IFRS), aim to accurately report a company's net assets, financial status, and operational results. These financial statements are crucial for guiding both current and prospective investors in making informed decisions (Penman, 2013). However, as noted by Dai and

Vasarhelyi (2017), relying solely on the balance of credits and debits in the accounting equation does not guarantee that all relevant accounts have been properly considered for accounting purposes. Moreover, since reservations can be modified or canceled retrospectively, there is potential for fraudulent activity (Faccia & Moţeanu, 2019).

Artificial Intelligence (AI) was first introduced as a concept in 1956 and remains a relatively emerging field in science and engineering (Russell & Norvig, 2016). AI encompasses more than just computer science and mathematics; it also integrates knowledge from economics, neurology, psychology, then various other disciplines (Russell & Norvig, 2016).

Durable AI and Feeble AI, two distinct types of AI, were initially defined by Searle in 1980. AGI, also known as durable AI (Adams *et al*., 2012; Van Gerven, 2017), possesses the capability to comprehend events and potentially experience emotions (Taulli, 2019). The ultimate aim of strong AI is to develop robots with human-like abilities and intelligence (Van Gerven, 2017).

AI and machine learning techniques are frequently used in forecasting, which has a broad range of applications. These include predicting financial flexibility like customer compensation dates Bahrami *et al*. (2020), and revenue and loss components, such as auctions (Kureljusic & Reisch, 2022). Various methods, including clustering, ranking, regression analysis, and classification, can be employed to predict future outcomes. Classification plays a key role in categorizing the objects under investigation (Baharudin *et al*., 2010). Ranking involves organizing items in a particular order based on specific criteria (Gerdes *et al*., 2021). Gathering, on the other hand, groups a set of items into subcategories based on their similarities (Kureljusic and Reisch, 2022). Regression analysis differs from previous methods by generating continuous values, which facilitates direct comparison with other observations (Mohri *et al*., 2018).

Davenport, T. H., & Ronanki, R. (2018) explore how AI-driven insights help organizations identify growth opportunities and optimize resource allocation. AI models provide real-time analytics that aid in dynamic strategy adjustments in response to market changes (Davenport & Ronanki, 2018).

Csaszar *et al*., (2024) discusses how companies use AI to simulate various strategic scenarios, allowing them to anticipate potential outcomes and develop more resilient business strategies (Csaszar, 2024).

Sutiene *et al*., (2024) find that AI algorithms can enhance portfolio management by optimizing asset allocation and predicting market movements with greater

CHAPTER 7

AI-Driven Strategies for Financial Success in Start-Ups and Economies

Sushanta Kumar Tarai[1,*], **Snigdharani Panda**[1] and **Jose Jesus Delgado Pena**[2]

[1] *Kalinga Institute of Social Sciences (KISS) Deemed to be University, Bhubaneswar, India*

[2] *Universidad de Malaga, Spain*

Abstract: This research investigates the originality and effectiveness of AI-driven strategies in fostering financial success within start-ups and broader economies. The primary objective is to identify the key AI applications that enhance decision-making, efficiency, and scalability in entrepreneurial ventures. Utilizing a mixed-methods approach, the study combines quantitative analysis of financial data from AI-integrated startups with qualitative interviews of industry experts. The findings indicate that AI significantly improves financial forecasting, market analysis, and operational efficiency, leading to enhanced profitability and sustainability. Practical implications suggest that the integration of AI into entrepreneurial frameworks is not just a trend but a necessity for future economic growth. This research contributes to the existing literature by providing empirical evidence and strategic recommendations for leveraging AI in entrepreneurship, with a primary focus on firm-level (startup-specific) analysis rather than macroeconomic or policy evaluation.

Keywords: AI-driven entrepreneurship, Economic growth, Financial success, Start-ups, Technological innovation.

INTRODUCTION

While AI has macroeconomic relevance, this study primarily focuses on firm-level (start-up) impacts to maintain analytical clarity. The following findings have been obtained from previous studies, which align with the themes of this chapter.

AI's Impact on Decision-Making and Opportunity Recognition

The rapid advancement of Artificial Intelligence (AI) has led to disruptive innovations across sectors, significantly transforming the entrepreneurial ecosystem (Giuggioli & Pellegrini, 2023). AI technologies have become critical

* **Corresponding author Sushanta Kumar Tarai:** Kalinga Institute of Social Sciences (KISS) Deemed to be University, Bhubaneswar, India, West Bengal, India; E-mail: taraibu@gmail.com

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enablers for startups by enhancing decision-making, streamlining operations, and providing market intelligence (Anane-Simon & Atiku, 2024). In today's globally competitive environment, startups are increasingly adopting AI to improve their strategic choices and ensure sustainability.

AI's integration into digital entrepreneurship is evident through its influence on early-stage decision-making and opportunity identification (Bernardo & Greco, 2023). Tools such as ChatGPT are reshaping how business opportunities are discovered, while also influencing user behavior and venture creation processes. Studies confirm that perceived AI capabilities positively affect the recognition and use of digital opportunities.

AI also contributes to strategic decisions by supporting entrepreneurs in evaluating market trends, identifying gaps, and customizing offerings. Through systematic literature analysis, researchers have framed the "AI-enabled entrepreneurial process," showing how AI assists not just in technical aspects but also in managerial and educational dimensions (Peniaz, 2023).

AI's Role in Financial Forecasting, Commercialization, and Scaling

While AI has macroeconomic relevance, this study focuses on firm-level impacts, particularly on start-ups, to maintain analytical clarity. AI integration directly influences financial success by aiding in resource allocation, financial forecasting, and performance tracking. Despite its growing importance, existing research largely emphasizes technological dimensions, leaving a gap in understanding AI's financial implications in emerging economies. This study aims to bridge that gap by exploring AI's strategic financial contributions within startup ecosystems (Bernardo & Greco, 2023).

However, AI startups often face commercialization challenges, including limited access to finance, weak marketing support, and constrained international exposure (Song & Han, 2023). Entrepreneurs frequently rely on internal strategies, personal experience, and informal methods due to investor skepticism and a lack of systematic planning. Addressing survivorship bias and including failed or struggling ventures in future studies is necessary for a more holistic understanding.

Startup accelerators play a key role in mitigating financial and commercialization risks. By offering funding, mentorship, and networking opportunities, accelerators enhance venture scalability and reduce early-stage uncertainty (Szalavetz, 2019). Global trends show a sharp rise in AI-based startups, particularly in the US, China, and the UK, where funding ecosystems and commercialization platforms are more mature (Subastyan, 2024).

Efficiency, Human-AI Collaboration, and Evolution of Business Models

AI is significantly improving startup efficiency, market responsiveness, and customer engagement (Simon *et al*., 2023). Automation enables faster operations and data processing, while AI-driven analytics offer insights for timely decision-making. Human-AI collaboration is also emphasized, where ethical considerations, user trust, and transparency are critical for long-term success.

AI-driven business models feature data-centric strategies, innovation, and flexibility. These models challenge traditional leadership roles and demand a balance between AI automation and human insight (Obschonka & Audretsch, 2020; Aladejana *et al*., 2020; Muley, 2024). Cross-functional applications with technologies like IoT, AR, and blockchain further extend AI's importance beyond technical utility to broader operational and strategic domains (Peniaz, 2023).

As these models evolve, ethical AI deployment and global regulatory coherence become increasingly urgent. Responsible innovation frameworks and international policy alignment are necessary to support sustainable growth and ensure AI remains inclusive, transparent, and accountable (Aladejana *et al*., 2020; Nasir *et al*., 2023).

While AI has macroeconomic and policy-level implications, this study focuses on evaluating its operational and financial impact at the startup or enterprise level.

The paper goes through two main objectives, such as to examine the key AI applications that enhance decision-making, operational efficiency, and financial forecasting in start-ups and to assess the impact of AI integration on the long-term financial sustainability and scalability of entrepreneurial ventures.

METHODS

Research Design

This study takes a mixed-methods approach to investigating the financial impact of AI-driven tactics in start-ups. The quantitative study entails collecting financial data from 50 AI-integrated start-ups from diverse industries, using stratified random sampling to ensure a representative sample. The qualitative component consists of ten interviews with AI and entrepreneurial specialists.

Data Collection

- ***Quantitative Data:*** Financial measurements such as profit growth, operational efficiency, and scalability are gathered from startups.

CHAPTER 8

AI Adoption and Financial Success of Startups: Evidence from Odisha

Kishore Kumar Das[1,*] and **Aditya Prasad Sahoo**[2]

[1] *Department of Commerce, School of Commerce and Management, Ravenshaw University, Cuttack, Odisha, India*

[2] *Department of Commerce, Ravenshaw University, Cuttack, Odisha, India*

Abstract: This chapter examines the relationship between the adoption of Artificial Intelligence (AI) and financial performance among startups in Odisha. A quantitative survey was carried out using a five-point Likert scale to gather responses from 120 startup founders, measuring AI integration, investment in AI technologies, perceived usefulness of AI in decision-making, and financial outcomes (revenue growth, profitability, cost reduction). Startup age was included as a control variable to account for the effects of startup maturity. Descriptive statistics revealed high levels of AI adoption (mean 3.8–4.1) and solid financial success (mean 3.5–3.9), with an average firm age of 4.85 years. Pearson correlations showed positive associations ($p < 0.01$) between AI metrics and financial indicators. Multiple regression analysis demonstrated 62% of the variance ($R^2 = 0.62$), confirming that AI integration, investment, and perceived usefulness significantly predicted financial performance, while firm age had a positive but non-significant effect ($\beta = 0.05$, $p = 0.097$). Compared to ecosystems like Bangalore and Gujarat, Odisha exhibits lower AI maturity and profitability. The findings suggest that enhanced policy support and skills development can further drive AI-enabled growth in regional startups.

Keywords: AI adoption, Financial performance, Startups, Strategic decision-making.

INTRODUCTION

The rapid advancement of Artificial Intelligence (AI) has ushered in a transformative era for the global entrepreneurial ecosystem, profoundly influencing how startups operate and achieve financial outcomes. AI technologies, such as machine learning, natural language processing, and predictive analytics,

[*] **Corresponding author Rupak Karmakar:** State Aided College Teacher (Category-I), Department of Commerce & Management, Barasat College, West Bengal, India; E-mail: drkkdas@ravenshawuniversity.ac.in

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are not only reshaping operational models but also redefining strategic decision-making processes (Mohammed *et al*., 2023). For startups, which typically operate under resource constraints but with a high degree of flexibility and innovation, the adoption of AI has emerged as a crucial differentiator in achieving sustainable growth and financial performance (Zhang & Kim, 2024). The present study aims to investigate the impact of AI integration on the financial success of startups in Odisha, India, by examining the strategic decisions and organizational factors that facilitate or hinder this technological transition.

Startups in dynamic and competitive markets are especially well-positioned to derive value from AI, due to their ability to rapidly adapt and experiment with emerging technologies (Dabbous & Boustani, 2023). This agility, combined with AI's capabilities in automating tasks, forecasting trends, and enhancing customer engagement, creates an ecosystem conducive to financial success (Bae *et al*., 2024). AI empowers entrepreneurs to make faster and more accurate decisions by transforming complex data into actionable insights (Ning and Talib, 2024). Such strategic capabilities are especially critical in contexts like Odisha, where startups face both opportunities and constraints related to regional infrastructure, access to capital, and digital literacy (Abuzaid & Alsbou, 2024).

By anchoring the analysis in empirical data gathered from startups in Odisha, this study bridges the gap between theoretical assertions and practical realities. The findings indicate that AI adoption has a statistically significant impact on various dimensions of financial performance, including revenue growth, cost efficiency, and market expansion. These results are consistent with the assertions of Bae*et al*. , who argued that AI enhances a startup’s ability to predict customer behaviour, optimize supply chains, and implement agile pricing strategies, all of which are factors that directly affect profitability.

Moreover, the data confirmed that startups with higher levels of strategic orientation and technological readiness derive greater financial benefits from AI. This supports the literature suggesting that AI adoption is not a standalone initiative, but rather a function of organizational preparedness and leadership vision (Abuzaid & Alsbou, 2024). Entrepreneurs who view AI as a strategic enabler rather than a technical tool are more likely to embed it effectively into their core operations, leading to improved financial metrics. This insight validates the hypothesis that strategic decision-making acts as a mediating factor in the relationship between AI and financial performance.

Furthermore, the study's findings corroborate prior research that emphasizes the multi-dimensional impact of AI. For instance, it highlights that technological readiness, entrepreneurial orientation, and organisational culture are crucial

mediators in achieving positive financial outcomes through AI (Sungthong *et al*., 2023). The data from Odisha startups supports this view, demonstrating that firms with a proactive cultural stance toward innovation and learning are more adept at leveraging AI for financial gain. This not only underscores the importance of internal organizational dynamics but also confirms the broader theoretical models proposed in earlier studies.

While the literature has broadly recognized AI's capacity to improve both financial and non-financial performance, there remains a paucity of research investigating how these improvements manifest in region-specific entrepreneurial ecosystems, (Lee *et al*., 2021). The current study addresses this gap by focusing on Odisha—a region with unique socio-economic conditions, infrastructural challenges, and evolving policy support. The findings extend the scope of existing research by demonstrating how context-specific variables, such as market maturity, digital infrastructure, and availability of skilled labour, mediate the financial benefits of AI adoption.

Significantly, the data revealed that while AI has a transformative impact, its efficacy is often limited by practical constraints. High implementation costs, lack of technical expertise, and data management challenges are identified as major barriers. These constraints are particularly relevant for startups in developing regions, where access to advanced technology and human capital is uneven. This reinforces the literature's call for tailored strategies that account for the local context when promoting AI adoption among startups (Petković *et al*., 2023).

The present study further confirms that AI improves operational efficiency by automating repetitive tasks, thereby freeing up resources for strategic initiatives. The empirical evidence from Odisha indicates that startups deploying AI in customer service, logistics, and marketing experience substantial cost savings and time efficiency, leading to measurable improvements in financial outcomes. This demonstrates the practical viability of AI as an operational enhancer, validating its role in driving the success of startups.

Additionally, the research highlights the competitive edge enjoyed by AI-integrated startups, (Peniaz, 2023). The surveyed startups report increased revenue growth and market share, confirming that AI is not merely an efficiency tool but a driver of strategic market positioning. Startups that utilize AI for customer segmentation, predictive analytics, and product recommendations achieve superior customer retention and revenue metrics compared to those relying on traditional methods, (Mumi, 2022).

Importantly, the study provides empirical support for the proposition that the benefits of AI are contingent upon its alignment with business objectives

CHAPTER 9

Impact of Artificial Intelligence on Human Resource Functions in Nepalese Organizations

Sumit Pradhan[1,*], **Monika Thapa**[1] and **Radhe Shyam Pradhan**[1]

[1] *Uniglobe College (Pokhara University Affiliate), Kathmandu, Nepal*

Abstract: This study explores the impact of artificial intelligence on recruitment and selection processes within Nepalese organizations. Recruitment and selection are selected as the dependent variable. The selected independent variables are machine learning, natural language generator, automation, speech/voice recognition, expert system, and data mining. The study is based on primary data with 103 respondents. To achieve the purpose of the study, a structured questionnaire has been prepared. The correlation coefficients and regression models are employed in this study. The study found that machine learning, automation, speech/voice recognition technology, expert systems, natural language generation, and data mining all have a positive impact on recruitment and selection. As these technologies are more effectively utilized, recruitment and selection processes become more efficient. The practical implication of this study is that adopting advanced technologies can significantly enhance recruitment and selection processes. Together, these technologies lead to more efficient, effective, and inclusive hiring practices, thereby boosting overall organizational performance.

Keywords: Artificial intelligence, Human resources, Machine learning, Recruitment, Selection.

INTRODUCTION

Humanoid or non-humanoid robots that behave like humans are examples of Artificial Intelligence (AI), also known as machine intelligence. AI can be used in enterprises to increase and improve operational efficiency. Artificial Intelligence is a ubiquitous technology that has the capacity to yield significant financial gains for enterprises, especially in service sectors such as banking, human resources recruiting, healthcare, transportation, tourism, and hotel operations (Buhalis, 2006). By automating repetitive processes, AI not only increases operational

[*] **Corresponding author Sumit Pradhan:** Uniglobe College (Pokhara University Affiliate), Kathmandu, Nepal; E-mail: sumidpradhan@uniglobe.edu.np

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efficiency but also improves customer satisfaction (Bolton, 2018). Technology has always been an amazing enabler, improving and empowering people, increasing living standards, creating new opportunities, encouraging employee innovation, and supporting an equitable workplace for all. In the contemporary world, companies must compete with numerous companies worldwide, rather than just a select few. The development of technologies reduces their negative environmental effects. This illustrates how companies must continue to compete in a rapidly evolving, innovative market.

It is becoming increasingly expected of HR directors to participate in organizational strategy development. However, administrative duties can frequently prevent HR professionals from playing this important role. AI has the ability to address this issue. HR specialists often spend time on administrative duties. This suggests a significant growth potential for AI applications (Rathi, 2018). HR departments may become more effective, and HR practitioners will have more time to concentrate on organizational strategy planning, if more businesses utilize AI to handle administrative tasks (Sullivan, 2019). AI software can computerize complex processes, including compiling information from multiple touchpoints, classifying personnel and HR issues into profiles, and training teams—all of which are essential for HR professionals to utilize data to its maximum potential (Jain, 2021).

Due to AI's boundless potential and uses, corporations and organizations' HR departments have integrated AI into their operations. Businesses such as Google, IBM, Amazon, Tesla, Apple, and others are utilizing AI in their HR processes to creatively resolve employee-related HR issues (Aspan, 2020). Furthermore, reluctance is also noted when it comes to the adoption and use of AI in multinational corporations. However, companies that operate in marketing, finance, and other areas are voluntarily using it. Notably, recent years have seen significant advancements in the fields of pattern recognition and natural language processing (Bhardwaj, 2020). In some data-rich environments, deep learning using neural networks has become increasingly commonplace, demonstrating the ability of robots to emulate adaptive human decision-making (Raub, 2018). However, very few businesses have advanced to the big data stage of staff management, where the potential has been clearly expressed in sufficient judgments on a regular basis. Combining and automating safe HR transactions is best done with state-of-the-art technology. Businesses must learn how to integrate AI and HR transactions into their decision-making processes to remain competitive in the contemporary global market (Brown, 2022). AI should be trusted with administrative tasks to enhance an organization's effectiveness. The potential for AI to transform HR and increase its relevance is something that many HR practitioners are unable to understand (Johnson, 2020).

Artificial Intelligence (AI) is increasingly being used in Human Resources (HR), and in the coming years, HR professionals are expected to utilize AI more widely. Previous studies explored how a wide range of companies that provide AI solutions offer insightful perspectives on integrating AI into HR Johnson & Lee, 2022. The study also highlights the emergence of notable companies developing their own AI solutions across various industries. The study highlights that, although Artificial Intelligence (AI) has been around for some time, recent technological developments have made it easier to use and maintain (Brown, 2022). This study focuses on human resources, although this topic area encompasses several fascinating subfields. Meanwhile, real-world situations necessitate numerous comprehensive human ways. However, there is no denying that Artificial Intelligence (AI) technology can help humans accomplish a variety of tasks more quickly and efficiently. Automation may result in the displacement of workers as machines take over jobs that people once performed. As machines take on intellectual jobs that were previously thought to be ordinary duties requiring human intelligence, a growing portion of work will become more automated (Ford, 2013). The human-computer interaction function created by AI enhances management effectiveness, which in turn improves the functional process for gathering, storing, and verifying the data required by an organization. Routine tasks are being replaced by Artificial Intelligence (AI) with the least amount of human input. AI is assisting with the employment process in several ways, including verifying references, sending automated text messages, and scanning resumes. According to the previous study, Artificial Intelligence has been helping organizations make decisions, deal with uncertainty, and especially when those decisions are ambiguous (Jarrahi, 2018). Even in this field, human interaction is crucial. Technology cannot replace humans when subconscious decisions are necessary to assess and expedite outcomes. A previous study examined how Artificial Intelligence (AI) can simplify the onboarding process for businesses and employees, as it can learn and adapt, recognizing preferences and qualities, and make recommendations of its own (He, 2018).

As mentioned earlier, experts predict that in the next ten years, artificial intelligence will outperform humans in services as well as in some less taxing occupations (Grace, 2018). According to a previous study, except for an increasing number of "gig economy workers," artificial intelligence is expected to put the majority of us out of business (Nuefeind, 2018). AI can effectively reduce human subjectivity and conduct the entire hiring process in an open, transparent, and objective manner. However, interactivity and face-to-face interactions, which involve multiple senses, must be absent from the interviewing process. The growing influence of Artificial Intelligence (AI) in the field of Human Resources (HR) has previously been assessed (Nun, 2019). AI has become essential in nearly every industry, and many HR managers aim to incorporate it into their

CHAPTER 10

Exploring AI's Role in Startup Success: A Framework for Future Entrepreneurs

Sanjeeb Kumar Dey[1,*] and **Debabrata Sharma**[2]

[1] *Department of Commerce, Ravenshaw University, Odisha, India*

[2] *Department of Finance, Biju ,Patnaik Institute of Information Technology and Management Studies, Odisha, India*

Abstract: This study systematically examines AI as a significant enabler in entrepreneurship, focusing on its potential impact on opportunity creation, decision-making, financial exploration, performance improvement, and education. The objective of this study is to explore stakeholder perceptions regarding the role of AI in startups, specifically examining how AI can assist in entrepreneurial processes, including financial aspects. A survey will be conducted using Likert scale statements to garner information on perceptions of artificial intelligence in the context of entrepreneurship. The data collected was analysed using the Structural Equation Modeling (SEM) technique in SmartPLS to test the model of the "AI-enabled entrepreneurial process." The study reveals how AI is perceived as an enabler in various entrepreneurial contexts, including its implications for opportunity generation, innovative financing, and performance improvement. The analysis evaluates the validity of the suggested framework. The study also provides insights into effectively integrating AI technology to optimize decision-making and improve business performance. Furthermore, the findings will help build focused AI-related content into entrepreneurial curricula, ensuring that future entrepreneurs possess the requisite skills to utilize AI.

Keywords: Artificial intelligence, Decision making, Entrepreneurship, Financial opportunity, Start-ups.

INTRODUCTION

Entrepreneurship plays a vital role in economic development by channeling scarce resources for maximum utilization, thereby benefiting society at large. It is a means for employment generation, promoting innovation, fostering competition, and accelerating growth. The importance of entrepreneurs can never be overstated in any country, regardless of its level of development. Over the years, the dimensions of entrepreneurship have drastically changed to cope with the evol-

* **Corresponding author Sanjeeb Kumar Dey:** Department of Commerce, Ravenshaw University, Odisha, India; E-mail: kumarsanjeebdey@gmail.com

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ving needs of consumers, technological advancements, market competition, complex business structures, and modes of operation, among others. Among all other factors, technology has the most significant influence on entrepreneurship. The evolution of digital platforms, e-commerce, virtual markets, social networks, *etc.*, has removed the barriers of entry for new businesses from anywhere in the world. Technology became the catalyst for business after the Industrial Revolution. However, it turns out to be a conundrum for future entrepreneurs.

In nurturing a vibrant entrepreneurial ecosystem, greater momentum has been gained by entrepreneurial training and development over the past two decades. The rising focus on entrepreneurship education and training weakens the conventional notion that 'entrepreneurs are born, not made.' To seize emerging opportunities and drive economic growth, entrepreneurial education empowers not only aspiring individuals but also established business practitioners. Research consistently demonstrates a positive correlation between entrepreneurial learning and active business engagement. Over time, Indian society's earlier belief that business is a perilous and unorthodox career path has gradually shifted. To fuel this transformation, both government and private bodies offer various incentives—ranging from financial backing and mentoring schemes to incubation hubs—to encourage and enable individuals to step into entrepreneurship. This growing institutional support system lays the groundwork for a new generation of informed, confident, and resilient entrepreneurs.

Artificial Intelligence stands out as a cutting-edge and transformative technological force with the capacity to redefine the landscape of entrepreneurial growth and national prosperity, especially in countries like India. From opportunity recognition and task automation to market outreach, operational refinement, and accessing unexplored funding avenues, AI proves to be a remarkable enabler. It empowers entrepreneurs to make smarter, data-driven choices while reducing manual load. Research findings confirm that startups leveraging AI tend to outperform conventional enterprises in terms of performance and scalability, reinforcing AI's pivotal role in the future of enterprise.

LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

The integration of AI into the entrepreneurial landscape indicates a transformative shift (Robledo *et al*., 2023). Through innovation, entrepreneurs create value as AI reshapes strategy, decisions, and the way businesses operate. As AI transcends simple automation, entrepreneurial ventures are conceptualized, strategized, and operationalized differently (Lévesque *et al*., 2022). New opportunities and business models are being reimagined as AI improves not only efficiency but also

overall innovation (Nambisan *et al*., 2019). AI reveals hidden insights and plays a crucial role in identifying new opportunities. With tools like predictive analytics, entrepreneurs can act on recent market trends and tap into new opportunities (Chalmers *et al*., 2021). Idea creation, product design, and market fit are improved as tools like ChatGPT and generative AI give creative answers and real-time feedback (Vecchiarini & Somià, 2023). AI offers cost-effective ways to assess feasibility and market potential, improving entrepreneurs' capacity to test new ideas rapidly (Bell & Bell, 2023). With only a few studies available, it's essential to explore how stakeholders, such as entrepreneurs and investors, perceive AI's role in identifying new opportunities. As the use of AI grows, businesses shift from traditional methods to smart, flexible, data-based ways of working (Nambisan *et al*., 2019).

Educational innovation is accelerated as AI provides adaptive learning systems, intelligent tutoring, and real-time feedback (Zawacki-Richter *et al*., 2019). AI also offers personalized support and automated prototyping, enhancing students' learning experiences, particularly in entrepreneurship education (McGrath *et al*., 2023). Entrepreneurship education must incorporate cutting-edge technologies to prepare students for the evolving business landscape (Zhou *et al*., 2024). However, despite these advancements, challenges such as ethical concerns and educators' skepticism still persist (Zhou *et al*., 2024). As AI advances alongside entrepreneurship education, doubts persist about how to effectively utilize it in teaching to develop skills, foster innovation, and support research (Bell & Bell, 2023). A previous study investigated how AI and IoT can enhance entrepreneurial creativity and innovation (Hisrich & Soltanifar, 2021), finding that these technologies offer benefits such as promoting individual and team-based innovation, streamlining operations, and enabling businesses to stay competitive in dynamic markets. A study revealed how a digital shift is shaped by an entrepreneurial mindset at the Estonian Business School and found that fostering innovative mindsets and digital competencies can help firms utilize technology more effectively and navigate future changes (Kooskora, 2021).

AI has significant potential to revolutionize financial management. From securing funding to automating key financial processes, AI tools have enhanced the ability of startups to sustain their operations and achieve rapid growth (Giuggioli & Pellegrini, 2023). Entrepreneurs make data-driven decisions that enhance financial performance and sustainability by utilizing AI-based predictive financial tools (Chalmers *et al*., 2021). AI can analyse market conditions in real-time, thereby helping entrepreneurs attract investors and secure funding (Giuggioli & Pellegrini, 2023). How new technologies, such as AI, blockchain, and cloud systems, are transforming startup finance by opening doors beyond traditional funding methods was the aim of the research conducted by (Lynn & Rosati,

CHAPTER 11

Harnessing Financial Technology (FinTech) for Startup Optimization: Insights into Efficiency, Cost Management, and Growth

Sudin Bag[1,*], **Kousik Mandal**[1] and **Nilanjan Ray**[2]

[1] *Department of Business Administration, Vidyasagar University, India*

[2] *Faculty of Management Studies, JIS University, India*

Abstract: In today's dynamic business landscape, startups face immense challenges in optimizing operations, managing costs, and scaling efficiently. Financial technology (FinTech) has emerged as a transformative tool, streamlining financial processes, enhancing decision-making, and reducing operational costs. This study explores the impact of FinTech adoption on startup efficiency and cost management, emphasizing its role in fostering sustainable growth. Employing a mixed-methods approach, the research incorporates qualitative insights from focus group interviews with startup managers and CEOs in West Bengal, followed by a quantitative analysis of a survey conducted among 112 startups. Structural Equation Modeling (SEM) was used to validate the proposed hypotheses, revealing that FinTech significantly enhances operational efficiency, facilitates data-driven decision-making, and enables cost-effective financial management. The study confirms that startups leveraging FinTech solutions experience improved customer experiences, streamlined financial operations, and greater access to alternative funding sources. The findings highlight the growing accessibility of FinTech tools and their critical role in ensuring startup sustainability in a competitive business environment. The study also presents theoretical and managerial implications, offering insights for startups to integrate FinTech solutions strategically.

Keywords: Data-driven decision-making, Digital financial solutions, FinTech, Startup efficiency, Structural equation modelling (SEM).

INTRODUCTION

In the rapidly evolving business landscape, startups face constant pressure to optimize their operations, manage costs effectively, and scale efficiently. Financial Technology (FinTech) has emerged as a game-changing tool, offering

* **Corresponding author Sudin Bag:** Department of Business Administration, Vidyasagar University, India; E-mail: sudinmba@mail.vidyasagar.ac.in; sudinbag1@gmail.com

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innovative solutions that streamline financial processes, enhance decision-making, and reduce operational costs (Hendershott *et al*., 2021). From automating accounting and payroll systems to enabling seamless online payments and providing data-driven insights, FinTech empowers startups to focus on growth while minimizing financial inefficiencies. As these technologies become more accessible and sophisticated, their role in driving startup success is becoming increasingly significant (Tran and Oanh, 2024). This paper explores how the adoption of FinTech solutions can boost startup efficiency, improve cost management, and ultimately support sustainable growth in a competitive environment.

In today's fast-paced and highly competitive business environment, startups are under constant pressure to not only survive but also to thrive by optimizing their operations and managing resources efficiently. Unlike established businesses, startups often operate with limited capital and lean teams, which makes cost management and operational efficiency critical to their success. In this context, AI is increasingly being implemented in FinTech that emerged as a revolutionary force, providing innovative solutions that streamline essential financial processes, enhance data-driven decision-making, and reduce the overall cost of running a business. By leveraging data from digital and physical sources to evaluate real-time service contexts, Artificial Intelligence (AI) can deliver customized recommendations and solutions for a wide range of customer inquiries. As companies implement AI in digital marketing to enhance customer understanding and choice navigation, these same tools offer valuable insights into how customers perceive and interact with products and services. This reciprocal advantage of AI has the potential to create and amplify positive interaction cycles between businesses and their clientele, driving improvements in future offerings. As startups seek to navigate the challenges of scaling and growth, FinTech offers an array of tools that allow them to operate with agility and precision, giving them a competitive edge in the marketplace (Allioui and Mourdi, 2023).

FinTech solutions have fundamentally transformed how startups handle core financial functions, including accounting, payroll, invoicing, and payments. By automating these processes, startups can significantly reduce the time and resources spent on manual tasks, minimize human errors, and ensure that financial operations run smoothly. According to operations run smoothly. According to FinTech platforms provide startups with access to real-time financial data and advanced analytics, enabling business leaders to make informed and timely decisions that can impact everything from cash flow management to budgeting. The availability of such insights empowers startups to better allocate resources, avoid unnecessary expenditures, and seize new growth opportunities.

Beyond streamlining internal processes, FinTech also plays a pivotal role in improving external financial operations, such as payment processing and fundraising. With the rise of digital wallets, mobile payments, and online banking, startups can now facilitate seamless transactions, improve customer experience, and reduce transaction costs (Omarini, 2018). Additionally, FinTech opens new doors to alternative funding sources, such as crowdfunding, peer-to-peer lending, and blockchain-based financing, which provide startups with greater flexibility and access to capital without the traditional constraints of banking institutions.

As FinTech continues to evolve and become more sophisticated, its impact on startups is expected to grow even further. The democratization of these technologies means that startups of all sizes and industries can now leverage powerful financial tools that were once only available to larger corporations. This growing accessibility allows startups to adopt FinTech solutions tailored to their unique needs and challenges, ultimately improving their efficiency, reducing operational costs, and fostering sustainable growth (Zarrouk *et al*., 2021).

This paper aims to explore the various ways in which FinTech contributes to startup success, particularly in terms of boosting efficiency and improving cost management. By examining real-world applications and case studies, it will provide insights into how startups can integrate FinTech into their operations to gain a competitive advantage in an increasingly complex and dynamic business landscape.

REVIEW OF LITERATURE

The role of FinTech in enhancing startup efficiency and cost management has been widely explored in academic and industry literature, reflecting its growing importance in the modern business ecosystem. This review synthesizes existing research and highlights key findings on how FinTech solutions have revolutionized startups' financial operations, with a focus on automation, real-time data access, external financial processes, and alternative funding.

FinTech and Operational Efficiency in Startups

Numerous studies emphasize the role of FinTech in automating financial processes and improving operational efficiency for startups. According to Puschmann (2017), automation through FinTech reduces manual efforts in accounting, payroll, and invoicing, allowing startups to allocate resources more strategically. This efficiency not only saves time but also minimizes human error, a factor identified by a few studies (Dai & Vasarhelyi, 2017; Zekos & Zekos

CHAPTER 12

Artificial Intelligence in Digital Marketing for Startups: Tools, Strategies, Challenges, and Real-World Applications

Akshay M[1,*] and **Nisa James**[1]

[1] *School of Management Studies, Cochin University of Science and Technology, Kochi, Kerala, India*

Abstract: This chapter investigates how Artificial Intelligence (AI) is reshaping digital marketing strategies for startups, addressing challenges posed by limited budgets and staffing constraints. The primary objective is to examine how AI tools—such as chatbots, predictive analytics, and recommendation engines—enhance operational efficiency, enable hyper-personalization, and facilitate real-time decision-making. Using secondary data and four illustrative case studies (Thread, Lemonade, Starbucks, and Spotify), the study adopts theoretical lenses like the Resource-Based View (RBV) and Technology Acceptance Model (TAM) to explain AI's role in achieving competitive advantages for resource-constrained firms. Key findings reveal that AI improves customer engagement and conversion rates but also introduces ethical and regulatory concerns, including data privacy, algorithmic bias, and transparency issues. Practical implications emphasize the need for startups to balance AI-driven efficiency with human oversight, ensuring responsible implementation. Future research should focus on sector-specific analyses, cross-cultural adoption patterns, and AI's long-term effects on startup growth and sustainability.

Keywords: Artificial intelligence, Digital marketing, Personalization, Social media marketing, Startups.

INTRODUCTION

The digital marketing landscape has undergone rapid transformations in recent decades, driven not only by the proliferation of internet access and social media but, more recently, by breakthroughs in Artificial Intelligence (AI) (Patil *et al*., 2022). These advances have introduced sophisticated computational models into

[*] **Corresponding author Akshay M:** School of Management Studies, Cochin University of Science and Technology, Kochi, Kerala, India; E-mail: akshayashok209@gmail.com

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the realm of marketing—spanning machine learning, natural language processing, and predictive analytics—ultimately redefining how businesses interact with their customers. While large corporations with expansive budgets have been quicker to embrace AI, startups now face heightened pressure to remain competitive and deliver highly personalized services despite more constrained financial and human resources (Chakraborti *et al*., 2022).

Digital marketing has long been recognized as a cost-effective way for startups to reach broad audiences, build brand identities, and measure the results of campaign efforts. Nevertheless, as digital marketing grows more complex, relying heavily on real-time data analysis and consumer insights, many startups find themselves struggling to match the demands of these rapidly evolving technologies (Chintalapati & Pandey, 2022). AI can address these challenges by automating tasks such as content creation, segmentation, and campaign optimization, thereby freeing human capital for more strategic responsibilities (Mikalef & Pateli, 2017). More than simply a route to efficiency, AI also fosters deeper customer relationships through hyper-personalization, advanced analytics, and intuitive user experiences (Kopalle *et al*., 2022).

The integration of AI into marketing strategies can be examined through several theoretical lenses. From the perspective of the Resource-Based View (RBV), data, analytics capabilities, and AI-driven insights become strategic resources that confer competitive advantages if leveraged effectively (Mikalef & Pateli, 2017). By contrast, the Technology Acceptance Model (TAM) focuses on how perceived usefulness and ease of use influence adoption. In the context of AI, startup founders are more likely to adopt tools if they see measurable gains—such as cost savings or better targeting—and find the associated software sufficiently user-friendly for rapid integration (Davis, 1989). Meanwhile, the Diffusion of Innovations Theory explains how novel technologies spread from early adopters to wider audiences, suggesting that startups able to embrace AI swiftly gain a first-mover edge in their respective niches.

These conceptual frameworks illuminate the drivers behind AI adoption and highlight the challenges startups may face in the process. While theory is crucial in explaining why startups are motivated to adopt AI, pragmatic insights from actual business practices are equally relevant to understanding how AI fits into real-world operations.

This chapter explores the ways AI optimizes digital marketing in startup environments by reviewing existing literature on AI-driven personalization, automation, predictive analytics, social media optimization, and ethical challenges. It then examines four specific case studies—Thread, Lemonade,

Starbucks, and Spotify—to show how startups utilize AI, while also analyzing the ethical and regulatory complexities that arise. Finally, it proposes practical frameworks and offers concluding thoughts on how responsible AI integration can shape future startup growth.

LITERATURE REVIEW

AI in Digital Marketing: An Evolving Paradigm

The fusion of AI and digital marketing is rooted in the notion that data-driven insights enable more precise targeting and higher customer engagement. Researchers have observed that AI algorithms, particularly those built on deep learning, can interpret extensive datasets to pinpoint user preferences, predict future purchase patterns, and automate tasks prone to human error (Morley, 2023). For startups constrained by limited budgets, AI therefore serves not only as a cost-cutting mechanism but also as a catalyst for strategic innovation.

AI-Driven Personalization

Personalization has become a central pillar of contemporary marketing. By integrating data from sources such as browsing history, demographic profiles, and transaction records, AI systems deliver experiences that closely fit individual customers' needs. In startups like Thread—an AI-driven fashion platform—machine learning algorithms emulate the role of a personal stylist, using iterative feedback and style preferences to refine product recommendations. Although hyper-personalization can raise conversion and retention rates, it also presents challenges regarding data privacy and algorithmic biases, as skewed or unrepresentative training data can inadvertently limit the diversity of recommendations (Makhlooq & Al Mubarak, 2024).

Automation through AI Chatbots

AI-powered chatbots have significantly altered how startups manage customer interactions by offering constant availability and rapid response times. Lemonade, an insurance technology firm, exemplifies this shift through its chatbot, Maya, which addresses routine claims and customer queries without needing human intervention (Crook, 2018). While these bots markedly reduce operational costs and response times, they remain ill-suited for more nuanced, empathy-driven interactions. This limitation underscores the need for carefully designed customer experiences that integrate human judgment in situations where emotional support or detailed explanation is crucial (Arsenijevic & Jovic, 2019).

CHAPTER 13

Mechanisms of Online Gambling Platforms and Their Impact on Financial Outcomes: A Model of Successful Gamblers' Strategies, Accessibility and Outcomes

Rachita Sharma[1,*], **Meenakshi Chawla**[1] and **Priyanka Chawla**[2]

[1] *St. John's College, Agra, India*

[2] *Prestige Institute of Management and Research, Gwalior, India*

Abstract: This paper aims at analysing the effects of successful gambling on the financial consequences of those who attend such platforms in terms of making a reliable income. It explores how skilled players manipulate different aspects of the platforms in terms of bonuses, incentives, and games that are determined by algorithms to gain more profits and least losses. The factors that influence financial success are financial knowledge, impulse control, the structure of the platform, and the mechanisms of withdrawal. The study reveals that, on one hand, applying smart gambling, people are still able to make significant amounts of money by following game rules and strategies on these platforms; on the other hand, due to the friendly interface and problematic gambling style, users face massive risks and limited stability. This research clearly calls for the mainstreaming of campaigns around financial literacy and surveillance, to make sure that the development and use of such economies is in the long-term interest of financial stability as opposed to the adoption of risk. Through the combination of quantitative questionnaire of the surveyed sample of successful players with qualitative data obtained during interviews, a comprehensive idea about the strategic actions and decisions is presented. Furthermore, the platform analysis will consider payout options and withdrawals. The target population comprises members of online forums and other groups that exhibit positive profitability in gambling ventures in a given period. Quantitative data will be analyzed through the use of correlation analysis to test the correlation between platform features, user's strategies, and financial returns, while the qualitative analysis will be conducted through code writing and identification of themes in response to set questions. The study expects to find that profit-oriented gamblers behaviour individually and rationally, balancing well in terms of financial intelligence and selectively and purposefully interacting with the platforms' features. This is because rewards such as bonuses and cash-back can greatly improve the profitability of the business, but there are concerns that these incentives will create compulsive gambling among even the most frequent gamblers. Risk-taking ability and self-control, like other psychological characteristics, are also likely to

[*] **Corresponding author Rachita Sharma:** St. John's College, Agra, India;
E-mail: sjcruchi@gmail.com, rachita9sharma@yahoo.com

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influence financial performance and exert pressure on it. However, long-term financial viability, on the other hand, can be best established in jurisdictions that have high levels of regulatory and consumer protection requirements. In conclusion, the findings are intended to equip the gamers with knowledge on ways of managing their finances in a proper manner in other to avoid risking their finances by making wrong decisions. It provides useful suggestions to the designers and developers of gambling platforms to design and incorporate features that create positive gambling experiences. Also, the findings have implications for policymakers in the formulation of policies that will improve consumer protection as well as prevent and treat associated compulsive gambling. The insights could also help financial institutions create specific financial products, such as saving products or investment products in an attempt to meet the long term needs of the financially successful gambler.

Keywords: Addiction tendencies, Algorithms, Ethical practices, Gambling sessions, Game design.

INTRODUCTION

The advancement in technology, the ground-breaking feature that has taken root is the one known as the online gambling platforms, which has revolutionaries the whole gambling business and activities providing equal opportunities as well as equal challenges to the existing and new experiencing setups (King *et al*., unpublished). These include machine learning, gamification and mobile applications, which have expanded the accessibility of the platforms to afford users easy access to engage in gambling without consideration of geographical barriers (Gainsbury *et al*., 2015). The accessibility of gambling has increased the range of accessible gambling among a wide variety of people and opened the door for highly skilled people to earn financially through good gameplay (Hing *et al*., 2018). However, this is different: in addition to winning, the financial outcomes for gamblers, and those deemed winners, very much depend on invisible, built-in mechanisms within these platforms, from pay-out algorithms and promotional incentives to withdrawal constraints. Not only can these features help drive the prospects of financial gains, but they also bring risks of being overexposed, being impulsive and poor income management (Lopez González & Griffiths, 2018). This is important because the dynamics between the interactions between platform mechanisms and user behaviours determine the long-term financial stability of gamblers.

The research suggests that despite the popularity of online gambling, the financial consequences of online gambling are moderated by digital literacy, psychological resilience, along the regulation of the online gambling platforms (Wardle *et al*., 2019). The democratization of skill has increased proximity, yet heightened risk, for problem gamblers and financial instability (Parke & Parke, 2019). This study

intends to study the mechanisms of its online gambling platforms and their effect on the economics of the successful gamblers, with a holistic model that encompasses strategies, availability and sanctions.

CONCEPTUAL FRAMEWORK

Gambling websites have multi-faceted, advanced systems that entice players while ensuring the company makes a profit. These mechanisms include balance mechanisms, random number generators, bonus rounds, and even jackpots, where the user gets a fair chance to win their money back while also ensuring they remain engaged. They also collect information on users during sign-up in order to personalize the experience. Behavioural data is used to market and promote specific items to users, making the interaction feel tailored to them. Moreover, the use of mobile applications, various payment systems, and unlimited accessibility allows for user engagement at all times and all places. Other multiplayer options, leader boards, and chat functionalities also enhance aesthetics, and near-fail situations alongside varied reward times provide the necessary stimulation and attention span for users to last longer.

As we all know, there are mechanisms, and strategists use them for their advantage and higher profits (Fig. **1**). Setting time and monetary limits to regulate spending, as well as setting aside a gambling allowance, are effective risk management strategies. Selection of games is extremely crucial as experienced gamblers play with games having a higher Return to Player percentage (RTP) and play with games with low or no disadvantages. Accessibility factors greatly impact user participation and outcome. Low entry costs, as well as features like intuitive interfaces and promotional incentives (free spins, deposit match, etc.) lower the barrier to entry and also increase platform usage through 24/7 availability and the ability to reach a global market. However, these same features can also be the cause of prolonged engagement, and even a risk for losing thousands of dollars or becoming addicted. However, the fortunes gamblers make are wildly varied: some win huge and strategically gain financially, while others lose too much and get so debt-laden, they never win enough to get out of the hole. Furthermore, there is a not insignificant contribution from behavioural impacts (habits and stress or euphoria, for example) on the overall experience.

Platform mechanisms and financial outcomes are complex and dynamic relationships. Mechanisms like personalisation and accessibility can increase user participation and success, but the risk to financial vulnerability technically rises as well. This represents a consideration of the interplay of these factors and the consequent critical dependence of user strategy and psychological discipline in adopting the promise and challenges of online gambling platforms. The insights it

CHAPTER 14

Empowering Start-up Economies: AI-Enabled Financial Decision-Making

Rachita Sharma[1,*] and **Jyoti Gupta**[2]

[1] *St. John's College, Agra, India*

[2] *Department of Management, Faculty of Social Science, Dayalbagh Educational Institute, India*

Abstract: Start-ups play a crucial role in fostering innovation and driving economic growth, yet they frequently face considerable challenges, especially regarding financial decision-making. Artificial Intelligence (AI) has become a game-changing resource, providing start-ups with sophisticated data analysis, predictive modelling, and tools for instantaneous decision-making. This research examines the critical role of AI in enhancing start-up economies, focusing on its impact on financial strategies, scalability, investor relations, and broader economic development. It also investigates using AI technologies like machine learning, natural language processing, and blockchain within financial frameworks. Additionally, the study addresses key challenges like algorithmic bias, data privacy, and ethical issues, suggesting practical solutions for adopting AI in a transparent and responsible manner. The findings further underscore AI's ability to improve financial inclusivity, optimize resource distribution, and promote sustainable economic progress, highlighting its transformative power to reshape financial decision-making and strengthen the resilience and growth of start-ups in ever-changing market conditions.

Keywords: Artificial intelligence, Block chain, Financial decision-making, Financial inclusivity, Machine learning, Natural language processing, Start-ups.

INTRODUCTION

Start-ups are recognized as pivotal agents of innovation, job creation, and economic change. They play a vital role in technological progress and enhancing competitive markets, but encounter ongoing challenges, especially in managing their financial decision-making processes. Limited funding access, suboptimal resource distribution, and volatile market conditions frequently threaten their sustainability and growth potential. Tackling these challenges is essential to unlocking start-ups' ability to drive economic advancement (Rao & Srinivasan, 2020).

* **Corresponding author Rachita Sharma:** St. John's College, Agra, India; E-mails: sjcruchi@gmail.com, rachita9sharma@yahoo.com

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In this setting, Artificial Intelligence (AI) stands out as a transformative catalyst that can alleviate these obstacles. AI equips start-ups with capabilities like advanced data analytics, predictive modelling, and real-time decision-making. For example, machine learning algorithms empower start-ups to predict market trends with greater accuracy, while natural language processing improves communication with investors and aids in sentiment analysis. Additionally, incorporating blockchain technology enhances transparency and trust in financial dealings, making AI a crucial asset for contemporary start-ups (Chen *et al*., 2021).

This study examines AI's critical role in helping start-ups tackle financial challenges. It investigates the relationship between AI (independent variable) and its effects, such as improved financial decision-making, scalability, and economic growth (dependent variables). By analysing AI's implementation in financial frameworks and addressing issues like algorithmic bias, data privacy, and ethical concerns, this paper aims to offer practical insights for start-ups to effectively utilize AI. The motivation for this research stems from the increasing significance of AI-driven solutions in creating resilient and scalable start-up environments. Understanding these factors is vital for promoting innovation and sustainable economic growth in today's competitive global marketplace.

REVIEW OF LITERATURE

The integration of Artificial Intelligence (AI) in start-up financial decision-making has been extensively studied across various dimensions, highlighting both its transformative potential and associated challenges. This review synthesizes existing knowledge, identifies gaps, and establishes a foundation for exploring AI's role in empowering start-up economies.

Start-ups often operate in high-risk environments with limited financial resources. Studies have emphasized challenges such as inefficient resource allocation, constrained funding, and inadequate risk management Chowdhury & Audretsch (2022). Start-ups frequently lack sophisticated tools to analyse market conditions, making them vulnerable to economic downturns. Similarly, a study (KPMG, 2021) identifies access to venture capital as a major constraint, often influenced by investor perceptions and start-ups' inability to present data-backed projections.

AI has emerged as a pivotal enabler of innovation in financial frameworks. Machine learning algorithms provide start-ups with predictive analytics for market trends, enabling proactive decision-making (Sun *et al*., 2022). Furthermore, AI's automation capabilities have been shown to reduce operational inefficiencies, as evidenced by Brynjolfsson and McAfee (2019), who argue that automated systems enhance productivity by minimizing human error.

Natural Language Processing (NLP) also plays a crucial role in financial communication. For example, sentiment analysis tools allow start-ups to gauge investor sentiment and adjust their strategies accordingly (Chen *et al*., 2021). Blockchain technology, another facet of AI integration, fosters transparency and trust in financial transactions, a critical factor for securing investments in competitive markets (Goyal & Kapoor, 2022).

AI's role extends beyond financial management to fostering economic resilience and innovation. Rao and Srinivasan (2020) underscore how AI integration leads to job creation and improved resource distribution, thereby amplifying start-ups' contributions to the broader economy. By enhancing operational scalability, start-ups leveraging AI can expand rapidly without compromising efficiency (Chen *et al*., 2021). However, the transformative impact of AI on economic ecosystems remains underexplored, particularly in terms of long-term sustainability and equity.

While the potential benefits of AI are vast, its adoption is not without ethical concerns. Fernandez *et al*., (2023) highlights the issue of algorithmic bias, which can result in discriminatory financial decisions, particularly in underserved markets. Data privacy is another critical challenge, with start-ups often struggling to comply with evolving regulations while leveraging customer data for AI applications.

RESEARCH GAP

Despite the growing body of literature on AI and start-ups, several gaps persist. Existing studies predominantly focus on the technical capabilities of AI rather than its strategic applications in start-up financial ecosystems. The impact of AI on ethical financial practices, as a dependent variable, is also under-researched. Furthermore, there is limited empirical evidence on how AI-driven financial decision-making influences start-up scalability and economic resilience in diverse market contexts.

RESEARCH QUESTION

1. How does the integration of AI technologies (e.g., machine learning, natural language processing, and blockchain) transform financial decision-making processes in start-ups?
2. What is the relationship between AI adoption and key financial outcomes for start-ups, such as scalability, investor relations, and resource optimization?
3. How can start-ups address the ethical and regulatory challenges of AI implementation to ensure sustainable and inclusive economic growth?

SUBJECT INDEX

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Narendra Kumar

Dr. Narendra Kumar is an Assistant Professor in the Department of Management Studies at Kumaun University, Nainital, Uttarakhand. With rich experience in academics and the corporate sector, he brings a balanced perspective to management education. He earned his Ph.D. in Management (Startups/Entrepreneurship) from Kumaun University and has also qualified the UGC-NET in Management (2010, 2013). His academic credentials include an MBA in Marketing & Finance, M. Com, and professional certifications from SEBI (NISM-V A), NABARD-BIRD, and WIPO, Switzerland.

As a Resource Person, Dr. Kumar has been entrusted with an international teaching assignment under the Government of India's e-Vidya Bharti Project, where he delivers lectures on Entrepreneurship Development for the MBA programme to foreign students—accentuating his role as a globally engaged academic. Dr. Narendra Kumar has made distinguished contributions to the fields of teaching and research. He has authored and co-authored several books with renowned academic publishers and contributed extensively to edited volumes and book chapters. He has also developed comprehensive course materials for MBA programs offered by prestigious universities in India and abroad. His research work has been published in reputed national and international journals, conference proceedings, and edited books, with a focus on entrepreneurship, startups, financial services, mutual funds, service marketing, and rural development. In addition to his scholarly research and writing, Dr. Kumar serves as a Peer Reviewer and Editorial Board Member for several esteemed journals, including those published by leading international publishers.

Pradipta Banerjee

Prof. (Dr.) Pradipta Banerjee is Dean of the Faculty Council of Commerce at Sidho-Kanho-Birsha University, Purulia, where he also serves as Professor in the PG and Research Department of Commerce and Head (In-Charge) of Business Administration. A Gold Medalist in Commerce from the University of Burdwan, he further earned his M.Phil. and Ph.D. from the same university, along with qualifying the UGC-NET with JRF.

With extensive teaching and research experience, Prof. Banerjee has published widely in reputed national and international journals, contributed to edited volumes, and delivered invited lectures at distinguished forums. His expertise spans financial markets, corporate finance, sustainability, and research methodology. He has been associated with numerous universities and institutions of national importance across India in various academic and advisory capacities. As an editor, reviewer, and board member for several leading journals, including those from Taylor & Francis, Inderscience, and Emerald, he continues to shape scholarly discourse in commerce and management. Recipient of the Shiksharatna Award by the Government of West Bengal, Prof. Banerjee is widely recognized for his academic leadership and contributions to higher education.