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A Case Study on the Impact of Artificial Intelligence in Small and Medium Enterprises

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Abstract: The integration of Artificial Intelligence (AI) is reshaping industries, becoming a vital tool for businesses to drive transformation and enhance performance. This study focuses on understanding the relationship between AI implementation and start-up business performance, using Chopwork as a case study. Start-ups, striving to establish themselves in a competitive landscape, must understand how AI influences critical performance metrics to ensure growth and sustainability. By examining AI adoption, this research aims to identify the pathways through which AI can shape start-up trajectories, offering insights for strategic decision-making.

Additionally, AI's impact extends to Small and Medium Enterprises (SMEs), enhancing operational efficiency, fostering innovation, and increasing competitiveness. Through a combination of quantitative and qualitative analyses, including surveys, interviews, and case studies, the study assesses the drivers and barriers of AI adoption. It also explores AI's effects on workforce dynamics, skill requirements, decision-making, resource allocation, and customer engagement. Real-world applications provide practical insights into optimizing SME operations, while ethical concerns like data privacy and algorithmic biases are addressed. This research offers a comprehensive perspective, aiding policymakers, business leaders, and researchers in understanding AI's opportunities and challenges for SMEs, ultimately supporting the development of effective, technology-driven strategies.

Keywords: AI Adoption in SMEs, Operational Efficiency, Innovation Capabilities, Competitiveness, Quantitative and Qualitative Analyses, Workforce Dynamics





