

# A Study on Impact of Artificial Intelligence in Finance Sector

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**Abstract:** *With the introduction of artificial intelligence (AI) into financial operations, the sector has undergone a radical transformation. An extensive analysis of the development, uses, and effects of AI in finance is provided in this paper. It looks at how artificial intelligence (AI) technologies like machine learning, natural language processing, and predictive analytics have improved the accuracy and efficiency of financial processes while also bringing about disruptive changes to established practices. The need to manage enormous datasets, reduce risks, and develop individualized financial solutions has sparked the adoption of AI in financial institutions. The paper demonstrates how risk assessment, trading, fraud detection, portfolio management, and customer service all use AI-powered algorithms. These programs not only facilitate better decision-making but also offer a competitive*

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