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Data, Algorithms, Decisions: Analysis of the Impact

of AI on the Performance and Stability of Portfolios

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Abstract

This study explores the integration of Artificial Intelligence (AI) in financial engineering practices, focusing on portfolio optimization and risk management. The aim is to assess how machine learning algorithms and predictive models can enhance financial decision-making, reduce uncertainties, and generate innovative strategies in the face of market complexity.

Keywords: Artificial Intelligence, deep learning, Particle Swarm Optimization, Monte Carlo simulations, Portfolio Performance