FINANCE TRANSFORMATION & AI SERIES

Machine Learning in Finance: Practical Applications and Ethical Considerations

COURSE LENGTH

Three 2-Hour Virtual Sessions or
One Full Day In Person

DESCRIPTION

As AI reshapes the financial landscape, finance professionals must navigate this technological revolution with pragmatism and insight. This comprehensive course is designed to equip the participants with a deep understanding of Machine Learning processes and their applications in finance. Through hands-on practice, they will experience data assessment, feature selection, model training, and model interpretation and explore the ethical considerations crucial in AI deployment.

LEARNING OBJECTIVES

— Understand the fundamental concepts of AI and Machine Learning in a financial context.

— Apply machine learning techniques to solve practical financial problems.

— Use no-code AI tools to perform advanced data analyses.

— Interpret and communicate the results of AI models effectively.

— Recognize and address ethical considerations in AI applications.

— Identify opportunities to leverage AI within your organization for strategic advantage.

AGENDA

— Foundations of AI in Finance
  • The Need for AI in Finance
  • Demystifying AI and Machine Learning
  • Capabilities and Limitations of AI
  • The AI Process End-to-End

— Machine Learning in Action for Finance
  • Predictive analytics with regression models
  • Outcome prediction with classification models
  • Clustering and anomaly detection
  • Time series analysis for trend prediction
  • Data selection and model interpretation
  • Hands-on practice with no-code AI tools

— Ethics in AI
  • Case studies on AI ethics
  • Understanding risks and benefits
  • Building ethical AI frameworks