APPLIED PREDICTIVE AI

FOR CAPITAL MARKETS: NO-CODE ANALYTICS, RISK SCORING & MARKET INTELLIGENCE

Informed decisions are rooted in data; from predictions on scenarios. Make this tedious and time-consuming process easy and simple with AI. Learn how here.

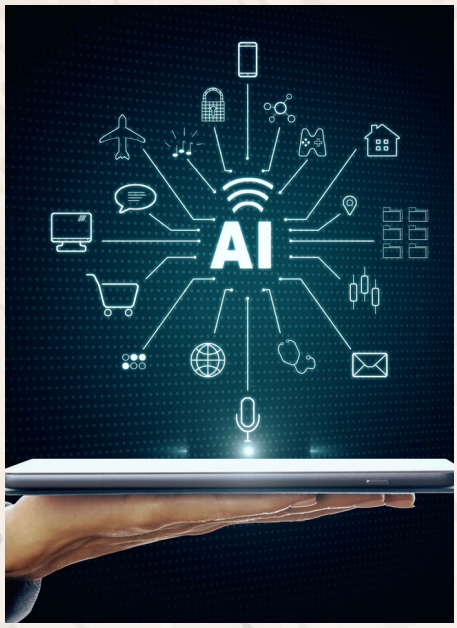
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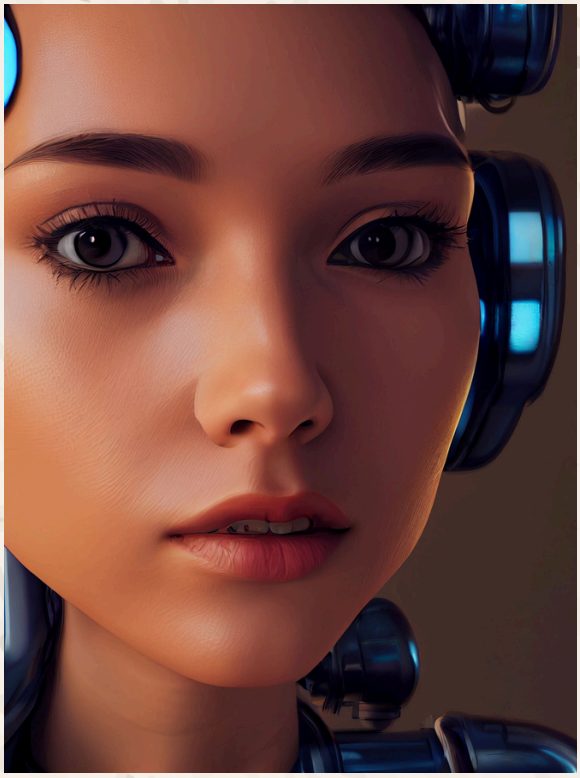
9 AM - 5 PM

AICB CENTRE OF EXCELLENCE, KL

RM **1,990**







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Applied Predictive AI for Capital Markets: No-Code Analytics, Risk Scoring & Market Intelligence

COURSE OUTLINE

Module 1: Predictive AI Landscape & KNIME Visual Data Engineering

- Cleaning, transforming, and merging multi-source Malaysian capital market datasets (price feeds, financial ratios, macro indicators) without writing code
- Hands-on: KNIME Visual Data Pipeline

Module 2: Credit Scoring & Bond Default Prediction in KNIME

- Supervised machine learning algorithms (Decision Trees, Logistic Regression, Random Forest) via KNIME nodes; evaluation metrics (Confusion Matrix, ROC Curve, AUC, Precision/Recall)
- Scoring credit default risk for corporate bond issuers and predicting credit rating downgrades using financial ratio inputs
- Hands-on: The Corporate Risk Scorer: Build and execute a complete KNIME classification workflow

Module 3: Alternative Data, Sentiment Analysis & LLM Integration

- Integrating LLM co-pilots with visual data mining; text pre-processing, prompt-based extraction, and sentiment scoring for capital markets
- Processing unstructured earnings call transcripts, broker reports, and annual report MD&As to extract quantitative sentiment scores for equity analysis
- Hands-on: The Market Sentiment Parser

Module 4: Multi-Factor Signal Screening & Investment Analytics

- Time-series feature engineering, multi-factor ranking algorithms, visual signal backtesting, and non-linear trend detection
- Constructing an automated equity screening engine that combines valuation multiples, technical indicators, and macroeconomic data to generate probability-based buy/sell signals
- Hands-on: The Automated Signal Generator

Module 5: Interactive Use-Case Clinic: Departmental AI Roadmap

- Small-group consultative brainstorming and structured AI Opportunity Framework mapping
- Translating course techniques into custom, desk-specific AI deployment proposals for participants' respective organizations (e.g., equity research, risk management, compliance surveillance)
- Hands-on: Departmental Use-Case Mapping

Module 6: Model Governance, Algorithmic Bias & Regulatory Alignment

- Managing algorithmic drift, model hallucinations, bias in training data, explainable AI (XAI/SHAP values), and maintaining human-in-the-loop (HITL) oversight
- Ensuring AI-assisted credit scoring and automated investment recommendations comply with SC guidelines, PDPA, and institutional compliance standards.
- Hands-on: Audit Readiness & XAI Lab

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Trainer's Profile

The trainer is a Data Scientist, specializing in the application of Artificial Intelligence (AI) and Machine Learning (ML) to address complex challenges in banking and capital markets.

Holding a Master of Data Science and Business Analytics, he bridges the gap between data modeling and practical financial risk management. He leverages his technical background to help financial institutions modernize their analytical frameworks, facilitating the transition from legacy systems to advanced, data-driven decision-making processes. His expertise is grounded in his experience within global audit and risk analytics. He has developed and deployed ensemble classification models - such as predictive modeling for payment outcomes - which are directly analogous to the credit risk scoring and financial forecasting essential in capital markets.

Additionally, he has implemented Large Language Models (LLMs) to automate sentiment analysis and data compliance, skills that are critical for modern regulatory oversight, market intelligence, and operational efficiency within the financial services sector. As a dedicated educator, he facilitates knowledge transfer by demystifying complex technical concepts for risk management teams and senior leadership. His instructional methodology, proven through extensive mentorship and internal training development, focuses on enabling financial professionals to leverage big data tools for greater audit accuracy and strategic planning. He brings a disciplined, practitioner-led approach to professional development, ensuring participants gain actionable insights that enhance the operational integrity and competitiveness of their financial institutions.

PARTICIPANT DETAILS

Name:

Position:

Department:

Contact Number:

Email:

Name:

Position:

Department:

Contact Number:

Email:

ADMIN DETAILS

Name:

Position:

Department:

Company:

Contact Number:

Email:

Address:

Payment Method: ☐ Direct Payment ☐ Claim HRD

Notes:

- *Cancellations made less than 14 days before the training date or non-attendance on the day of training are non-refundable. Substitution is allowed.*
- *Once registration is confirmed, the client is fully liable for the course fee, regardless of whether payment is made directly or through the HRDC grant, and even if participants do not attend the training.*
- *Clients who opt for direct payment must ensure full payment is made before the training date.*
- *HRDC grant applications must be submitted and approved 14 days prior to the training day. The maximum claimable amount is RM1,750 per participant per day. Any shortfall between the approved grant and the course fee must be topped up by the client.*
- *Should the number of confirmed participants be too low to ensure a meaningful learning experience, Symphony reserves the right to postpone or cancel the training.*