



Consulting and Training | Reach New Heights

Course Name

Advanced Predictive Analytics and Decision Intelligence for Business Strategy

Sector Name

Digital Transformation and Innovation

Document Type

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Advanced Predictive Analytics and Decision Intelligence for Business Strategy

Course Introduction

Advanced analytics combines predictive modeling, machine learning, and decision-making frameworks to maximize business value. This program equips participants with the knowledge and skills to apply analytics strategically, transforming complex datasets into actionable business insights

The course emphasizes interpretability, integration of predictive models into organizational workflows, and practical decision intelligence approaches. Participants will learn to generate insights that are operationally relevant and drive measurable business outcomes.

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Advanced Predictive Analytics and Decision Intelligence for Business Strategy

Target Audience

- ✓ **Strategy & Corporate Planning Professionals**
- ✓ **Business Intelligence & Advanced Analytics Managers**
- ✓ Decision Intelligence Leads / Analytics Translators

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Learning Objectives

- ✓ Apply predictive and prescriptive analytics for strategic decisions.
- ✓ Build and deploy advanced machine learning models.
- ✓ Optimize models using advanced feature engineering and hyperparameter tuning.
- ✓ Evaluate model performance and interpret outputs effectively.
- ✓ Integrate analytics into business decision-making processes.

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Course Outline

✓ DAY 01

Predictive Analytics Techniques

- ✓ Regression, classification, and forecasting methods
- ✓ Evaluating model assumptions and robustness
- ✓ Feature engineering for predictive performance
- ✓ Scenario-based analytics for business applications
- ✓ Predictive modeling lifecycle management

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Course Outline

✓ Day 02

Machine Learning Model Development

- ✓ Supervised vs unsupervised learning for business problems
- ✓ Decision trees, ensemble models, and gradient boosting
- ✓ Support Vector Machines and neural network basics
- ✓ Hyperparameter tuning and cross-validation
- ✓ Model deployment strategies in enterprise environments

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Course Outline

✓ Day 03

Advanced Analytics for Decision-Making

- ✓ Scenario analysis and what-if modeling
- ✓ Sensitivity analysis to understand input impact
- ✓ Integrating predictive outputs into dashboards and reports
- ✓ Prescriptive analytics: optimizing decisions using models
- ✓ Risk assessment and mitigation using predictive insights

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Course Outline

✓ Day 04

Model Interpretation and Explainability

- ✓ Feature importance, SHAP values, and partial dependence plots
- ✓ Avoiding overfitting and ensuring generalizability
- ✓ Communicating insights to non-technical stakeholders
- ✓ Ethical considerations and bias mitigation in analytics
- ✓ Decision intelligence frameworks for translating insights to action

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Course Outline

✓ Day 05

Capstone: Predictive Analytics in Strategic Decisions

- ✓ End-to-end predictive analytics workflow from data to insights
- ✓ Selecting the best model for business impact
- ✓ Applying insights to strategic planning and operational decisions
- ✓ Monitoring and updating models for continued relevance
- ✓ Embedding predictive analytics in organizational decision processes

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 2, 2027	May 6, 2027	5 days	4250.00 \$	KSA , Riyadh
Nov. 8, 2026	Nov. 12, 2026	5 days	2150.00 \$	Virtual , Online
March 29, 2027	April 2, 2027	5 days	4950.00 \$	Spain , Madrid
Aug. 16, 2027	Aug. 20, 2027	5 days	4250.00 \$	UAE , Dubai

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