



Consulting and Training | Reach New Heights

Course Name

Advanced Predictive Analytics and Statistical Modeling

Sector Name

Digital Transformation and Innovation

Document Type

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Advanced Predictive Analytics and Statistical Modeling

Course Introduction

In the era of data-driven decision-making, descriptive analytics alone is insufficient. This program equips participants with advanced statistical and predictive modeling techniques to uncover patterns, forecast outcomes, and guide business decisions. The course emphasizes both theoretical foundations and practical applications of regression, classification, and time-series forecasting.

Participants will learn to interpret model outputs, validate performance, and integrate predictive insights into decision-making frameworks. Hands-on exercises with real-world datasets ensure participants can directly apply their skills to business scenarios.

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Advanced Predictive Analytics and Statistical Modeling

Target Audience

- ✓ Data Analysts and Senior Data Analysts
- ✓ Data Scientists and Predictive Modeling Specialists
- ✓ Business Intelligence (BI) Professionals

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Learning Objectives

- Apply advanced statistical techniques for predictive modeling.
- Build and evaluate regression, classification, and time-series models.
- Interpret model outputs and extract actionable insights.
- Implement model validation and performance optimization.
- Translate predictive analytics findings into business decisions.

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Advanced Predictive Analytics and Statistical Modeling

Course Outline

✓ DAY 01

Advanced Statistical Foundations

- Review of probability distributions and hypothesis testing
- Correlation, covariance, and multicollinearity
- Advanced regression techniques: linear, logistic, and polynomial
- Model assumptions and diagnostics

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Course Outline

✓ Day 02

Classification and Predictive Modeling

- ✓ Supervised learning concepts and algorithms
- ✓ Decision trees, random forests, and gradient boosting
- ✓ Evaluation metrics: accuracy, precision, recall, F1-score, ROC-AUC
- ✓ Feature selection and engineering for predictive performance

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Course Outline

✓ Day 03

Time-Series Forecasting

- ✓ Introduction to time-series data and trends
- ✓ ARIMA, SARIMA, and exponential smoothing techniques
- ✓ Seasonality and trend decomposition
- ✓ Forecast evaluation metrics: RMSE, MAE, MAPE

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Course Outline

✓ Day 04

Model Interpretation and Explainability

- ✓ Understanding coefficients and variable importance
- ✓ Partial dependence plots and SHAP values
- ✓ Identifying actionable insights from model outputs
- ✓ Avoiding common pitfalls in interpretation

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Course Outline

✓ Day 05

Integrating Predictive Analytics into Decision-Making

- ✓ Translating model outputs into business strategy
- ✓ Scenario analysis and decision support using predictive models
- ✓ Combining multiple models for ensemble forecasting
- ✓ Capstone project: building a predictive model from raw data to actionable insights

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai
June 7, 2026	June 11, 2026	5 days	4250.00 \$	KSA , Riyadh
Nov. 15, 2026	Nov. 19, 2026	5 days	2150.00 \$	Virtual , Online
Aug. 2, 2026	Aug. 6, 2026	5 days	4250.00 \$	Egypt , Cairo

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