

Course No. 1777

Reading Predictive Model Outputs for Non-Technical Professionals Training Course

DATA SCIENCE & ADVANCED ANALYTICS
DATA, ANALYTICS & DIGITAL TRANSFORMATION

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Reading Predictive Model Outputs for Non-Technical Professionals Training Course is a practical programme designed for managers, executives, decision-makers, and business professionals who need to understand and use predictive model results without requiring advanced programming, mathematics, or technical expertise.

The course focuses on enabling participants to correctly interpret predictive outputs, probabilities, forecasts, confidence levels, accuracy measures, and uncertainty. Participants will learn how to distinguish reliable predictions from results that require further validation, investigation, or professional judgment before being used for decision-making.

Participants will gain a practical understanding of how predictive models use data inputs to generate outputs, as well as how data quality, bias, uncertainty, model limitations, and changing business conditions can affect predictive results.

Through practical exercises, business scenarios, and case studies, participants will develop the ability to ask the right questions about predictive models, assess whether their outputs are appropriate for a particular business context, communicate effectively with technical teams, and translate predictive insights into informed managerial and strategic decisions.

Objectives

- By the end of the course, participants will be able to:
- Understand the fundamentals of predictive models without requiring advanced technical knowledge.
- Interpret key outputs and results generated by predictive models.
- Understand probabilities, forecasts, confidence levels, and accuracy indicators.
- Distinguish between prediction, correlation, and causation.
- Assess whether a predictive model is appropriate for a specific business problem.
- Identify the key factors influencing predictive results.
- Compare predicted outcomes with actual results and identify deviations.
- Recognize indicators of weak model performance or unreliable predictions.

- Understand how data quality and bias can influence predictive outputs.
- Evaluate the risks and limitations associated with predictive decision-making.
- Ask effective questions when reviewing predictive model results with technical teams.
- Use predictive insights to support planning, performance management, and risk management.
- Strengthen managerial judgment when interpreting predictive outputs.
- Apply governance principles to the responsible use of predictive models.
- Translate predictive outputs into actionable business recommendations.

Who Should Attend

This course is designed for executives, senior managers, department heads, business leaders, decision-makers, strategy professionals, and planning and performance managers who need to understand predictive analytics without becoming technical specialists.

It is particularly relevant to professionals working in strategy, corporate planning, finance, risk management, operations, marketing, human resources, sales, business development, project management, digital transformation, and performance management.

The programme is suitable for government and public-sector organizations, banks and financial institutions, oil and gas companies, energy organizations, engineering and industrial companies, telecommunications, healthcare, logistics, and large corporations using predictive analytics to support managerial and strategic decisions.

Learning Outcomes

- By the end of the course, participants will be able to:
- Explain the purpose of predictive models and their role in decision support.
- Interpret key predictive model outputs from a managerial perspective.
- Correctly interpret probabilities, forecasts, confidence levels, and uncertainty.
- Assess the quality and reliability of predictive results.
- Distinguish between reliable outputs and results requiring additional validation.
- Identify the key variables and factors influencing predictions.

- Compare predicted outcomes with actual performance and measure deviations.
- Recognize potential bias, uncertainty, and accuracy limitations.
- Understand the impact of data quality on predictive model outputs.
- Assess whether predictive results are suitable for a specific decision or business context.
- Communicate more effectively with data scientists, analysts, and technical teams.
- Use predictive insights to support planning, risk management, and performance improvement.
- Combine predictive insights with professional expertise and managerial judgment.
- Apply responsible-use and governance principles to predictive models.
- Convert predictive outputs into practical decisions and actionable recommendations.

Course Outline

DAY 01

Predictive Models & Understanding Their Outputs

- Introduction to predictive modelling and its role in business.
- Descriptive, diagnostic, predictive, and prescriptive analytics.
- How predictive models work from a non-technical perspective.
- Understanding data inputs, variables, features, and outputs.
- Predictions, probabilities, forecasts, and expected outcomes.
- Understanding possible outcomes and prediction ranges.
- Introduction to model performance indicators.
- Reading predictive reports and model outputs.
- When should predictive results be trusted and when should they be reviewed?

PRACTICAL APPLICATION

Reading and interpreting predictive model outputs using a simplified business scenario.

DAY 02

Interpreting Predictions, Probabilities & Confidence

- Understanding probability in predictive models.
- Interpreting confidence levels and uncertainty.
- Understanding prediction intervals and possible outcomes.
- Accuracy versus reliability.
- Understanding prediction errors and deviations.
- Comparing predicted results with actual outcomes.
- Interpreting changes in predictive results.
- Understanding the influence of key variables on predictions.
- Evaluating unexpected or extreme predictions.

PRACTICAL APPLICATION

Reviewing a set of predictive results and assessing confidence levels and associated decision risks.

DAY 03

Evaluating Model Quality & Predictive Risks

- How non-technical professionals can assess model quality.
- Understanding model accuracy and performance indicators.
- Common sources of predictive error.
- The impact of data quality on model outputs.
- Understanding data and model bias.
- Changing data, market conditions, and operating environments.
- Risks of excessive reliance on predictive outputs.
- Understanding the difference between correlation and causation.
- Identifying situations requiring human intervention or additional analysis.

PRACTICAL APPLICATION

Evaluating predictive model outputs and identifying strengths, weaknesses, limitations, and risks.

DAY 04

Using Predictive Outputs for Decision-Making

- Turning predictions into meaningful business insights.
- Using predictive models in strategic planning.
- Forecasting demand, performance, revenues, and costs.
- Applying predictive insights to risk management.
- Supporting resource allocation and investment decisions.
- Using predictions to improve operational performance.
- Scenario analysis and evaluation of strategic alternatives.
- Combining predictive results with professional expertise and managerial judgment.
- Asking the right questions when reviewing predictive results with analytical and technical teams.

PRACTICAL APPLICATION

Using predictive outputs to support a strategic management decision.

DAY 05

Governance & Responsible Use of Predictive Models

- Principles of predictive model governance.
- Accountability for decisions supported by predictive models.
- Transparency and interpretability of predictive results.
- Managing bias, uncertainty, and model-related risks.
- Data privacy and responsible use of predictive analytics.
- Establishing appropriate limits on reliance on predictive outputs.
- Building validation and review mechanisms.
- Monitoring model performance over time.
- Managing model changes as business conditions evolve.
- Strengthening collaboration between management, analytics, and technical teams.

DAY 05 — CONTINUED

FINAL WORKSHOP

Evaluating an integrated predictive model output, interpreting its results, identifying limitations and risks, and converting the findings into practical management recommendations and decisions.

Register or Request More Information

Course page: <https://quest-training.com/courses/reading-predictive-model-outputs-for-non-technical-professionals-training-course>

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