

€ TRAINING

Data Driven Decision Making





Data Driven Decision Making

Introduction:

In today's data-driven world, organizations must extract valuable insights from vast amounts of information to thrive. Across business, healthcare, science, and government, informed decision-making based on robust data analysis is vital. This program represents a systematic approach to exploring, interpreting, and utilizing data for strategic and tactical decisions, empowering individuals and organizations to unlock their data assets for smarter, more impactful decision-making.

Program Objectives:

By the end of this program, participants will be able to:

- Recognize biases leading to poor decisions and learn strategies to overcome them.
- Understand data sources, assess quality, and integrate them effectively.
- Analyze past events to extract insights and explanations.
- Utilize machine learning to predict future outcomes in business contexts.
- Learn implementation challenges in building a data-driven organization.
- Explore ethical and regulatory considerations in decision-making with data.

Targeted Audience:

- Business professionals like analysts, managers, and executives.
- Data scientists and analysts seeking to improve decision-making skills.
- Healthcare practitioners interested in leveraging data for decisions.
- Researchers and scientists using data for analysis and prediction.
- Government officials and policymakers seeking evidence-based decisions.
- Professionals interested in understanding ethical and regulatory aspects of data-driven decisions.

Program Outlines:

Unit 1.

Understanding Data Analysis:

- Explore biases affecting decision-making.
- Identify critical questions for business decisions.
- Assess data quality and sources.
- Utilize intermediary software services for data integration.
- Analyze past events to extract insights.

Unit 2.

Machine Learning Fundamentals:

- Understand machine learning algorithms.
- Select appropriate algorithms for business contexts.
- Train models for predictive analytics.
- Evaluate model performance.
- Implement machine learning solutions.

Unit 3.

Ethical and Regulatory Considerations:

- Explore ethical implications of data-driven decisions.
- Understand regulatory frameworks.
- Ensure compliance with data protection laws.
- Address privacy concerns.
- Mitigate risks associated with data usage.

Unit 4.

Building a Data-Driven Culture:

- Overcome implementation challenges.
- Foster organizational buy-in for data initiatives.
- Promote data literacy among employees.
- Establish data governance frameworks.

- Integrate data-driven practices into organizational processes.

Unit 5.

Advanced Analytics and Prediction:

- Leverage advanced analytics techniques.
- Harness predictive modeling for future insights.
- Apply predictive analytics in business scenarios.
- Interpret and communicate predictive results effectively.
- Scale predictive analytics solutions for large datasets.