Artificial Intelligence for IT support

Duration : 4 days

The AI for Data Analytics with Power BI Course is designed to help professionals analyze, visualize, automate, and interpret business data using modern AI-enabled Power BI features.

PREREQUISITES

Participants should have:

- Basic computer knowledge
- Familiarity with Excel is beneficial
- Basic understanding of business reporting concepts
- Interest in Data Analytics and AI
- No prior Power BI experience is required.

WHAT WILL YOU LEARN?

By the end of this course, delegates will be able to:

- Understand AI-powered data analytics concepts
- Create professional dashboards using Power BI
- Build interactive business intelligence reports
- Use AI visuals and smart analytics features
- Perform predictive analytics and forecasting
- Develop DAX calculations and data models
- Automate reporting workflows
- Integrate AI and machine learning with Power BI
- Create executive-level KPI dashboards
- Deploy enterprise analytics solutions securely

Module 1: Introduction to Data Analytics & Power BI

- Understanding Data Analytics

- Business Intelligence concepts
- Introduction to Power BI ecosystem
- Power BI Desktop & Power BI Service
- AI in Data Analytics

Module 2: Data Collection & Transformation

- Importing data from multiple sources
- Data cleaning techniques
- Power Query Editor
- Data transformation workflows
- Handling large datasets

Module 3: Data Modeling in Power BI

- Building data models
- Relationships management
- Star schema concepts
- Calculated columns & measures
- Data optimization techniques

Module 4: DAX Fundamentals

- Introduction to DAX
- Calculated measures
- Time intelligence functions
- Aggregations & filters
- Advanced DAX formulas

Module 5: AI Features in Power BI

- AI visuals in Power BI
- Smart narratives
- Key influencers visual
- Decomposition tree
- AI-generated insights

Module 6: Power BI Copilot & Generative AI

- Using AI Copilot in Power BI
- Natural language querying
- AI-assisted report generation
- Automated dashboard creation
- AI-driven analytics workflows

Module 7: Predictive Analytics & Machine Learning

- Predictive modeling concepts
- Forecasting in Power BI
- Integrating Machine Learning models
- Azure AI integration
- Trend analysis techniques

Module 8: Dashboard & Report Development

- Interactive dashboards
- KPI reporting
- Executive dashboards
- Data storytelling
- Real-time business reporting

Module 9: Automation & Data Integration

- Power Automate integration
- Scheduled data refresh
- Automated workflows
- API integrations
- Enterprise analytics automation

Module 10: Security, Governance & Deployment

- Data security in Power BI
- Row-level security
- Sharing & collaboration

- Publishing reports
- Enterprise deployment strategies