

€ TRAINING

Advanced Analytics with Microsoft Tools





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Introduction:

This training program provides participants with essential knowledge and skills in advanced analytics using Microsoft tools. It empowers them to leverage Microsoft technologies for data analysis, visualization, and actionable insights.

Program Objectives:

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

- Understand the capabilities of Microsoft tools for advanced analytics.
- Perform data analysis using Power BI, Excel, and other Microsoft tools.
- Create interactive data visualizations and dashboards.
- Apply advanced data modeling and machine learning techniques.
- Integrate and automate data workflows.

Targeted Audience:

- Data Analysts.
- Business Intelligence Professionals.
- Data Scientists.
- IT Professionals involved in data analysis.
- Business Managers seeking data-driven decision-making.

Program Outline:

Unit 1:

Introduction to Advanced Analytics:

- Overview of advanced analytics and its importance.
- Introduction to Microsoft analytics tools: Power BI, Excel, Azure.
- Data sources and connectivity options.

- Data preparation and cleaning techniques.
- Key concepts in data analysis and visualization.

Unit 2:

Data Analysis with Power BI:

- Getting started with Power BI Desktop.
- Importing and transforming data in Power BI.
- Creating and customizing visualizations.
- Building interactive reports and dashboards.
- Sharing and collaborating on Power BI reports.

Unit 3:

Advanced Excel for Data Analysis:

- Using advanced Excel functions and formulas for data analysis.
- PivotTables and PivotCharts for data summarization.
- Data visualization techniques in Excel.
- Using Power Query and Power Pivot for data modeling.
- Integration of Excel with Power BI.

Unit 4:

Machine Learning and Predictive Analytics:

- Introduction to machine learning concepts.
- Using Azure Machine Learning Studio.
- Building and training machine learning models.
- Evaluating and deploying predictive models.
- Case studies on machine learning applications.

Unit 5:



Automating and Integrating Data Workflows:

- Introduction to Microsoft Power Automate.
- Creating automated workflows for data processing.
- Integration with other Microsoft tools Teams, SharePoint, etc..
- Monitoring and managing automated workflows.
- Best practices for data workflow automation.