

# € 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.