

MASTERING DATA ANALYTICS

Harnessing Python and
Power BI for Insightful
Decision Making

Curriculum

- Introduction to Data Analytics
- Introduction to PowerBI
- Data Preparation
- Data Visualization in PowerBI
- Introduction to DBMS and SQL
- Python Basics for Data Analysis
- Exploratory Data Analysis(EDA)
- Data Manipulation with Pandas
- Building a Data Analytics Project
- Case Study – Real World Application

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Detailed course topics

Introduction to Data Analytics:

- Define data analytics and its significance.
- Explore applications.

Introduction to Power BI:

- Overview of Power BI and components.
- Connecting it with Datasets.

Data Preparation:

- Power Query Editor.
- Data cleaning methods.

Data Visualization in Power BI:

- Charts
- Visualizations and Dashboard
- DAX

Introduction of Database System and SQL:

- SQL Queries.
- CURD Operations
- Window Operations

Python Basics for Data Analytics:

- Overview of Python and its significance

Exploratory Data Analysis (EDA):

- Data Visualization with Matplotlib and Seaborn.
- Statistics and correlation analysis.

Data Manipulation with Pandas:

- DataFrames and Series.
- Filtering, grouping, and aggregating
- Combining datasets.

Building a Data Analytics Project:

- Integrate Python and Power BI.
- Best practices for presenting findings to stakeholders.

Case Studies and Real-World Applications:

- Analyze industry datasets and organize group projects for practical application.
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This outline ensures participants gain theoretical knowledge and practical skills in data analytics.

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