data-virtuo

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 of Tableau and Visualization

- Python Basics for Data Analysis

- Exploratory Data Analysis(EDA)

- Data Manipulation with Pandas

- Building a Data Analytics Project

- Case Study - Real World Application

MASTERING DATA ANALYTICS

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 Tableau and Visualization:
- Overview of Tableau and components.
- Connecting it with Datasets.
- Visualizations and Dashboard

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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