

# DATA ANALYTICS

## COURSE CURRICULUM



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**+91 630 171 9270**

## POWER BI

- What is BI?
- Getting started with Power BI
- Types of Power BI
- Power BI vs Tableau vs Excel
- Installation and Introduction
- Components of Power BI
- Power BI Desktop Overview
- Connections and Transformations
- Data Cleaning and Shaping
- Merge and Append Queries
- Data Modeling
- Relationships
- Calculated Columns and Measures
- DAX Basics
- Charts and Visualizations
- Slicers and Filters
- Drillthrough and Tooltips
- Bookmarks and Selections
- Buttons and Actions
- KPI Cards and Gauges
- Maps and Custom Visuals
- Dashboard Design
- Power BI Service (Cloud)
- Publishing Reports
- Creating Dashboards
- Sharing and Collaboration
- Row-Level Security
- Gateway Installation and Scheduling Refresh
- Real-time Dashboard (Overview)

## SQL (STRUCTURED QUERY LANGUAGE)

- SQL Introduction
- DDL, DML, DQL, TCL
- Create, Alter, Drop, Truncate
- Insert, Update, Delete
- Select Statement
- Where Clause
- Order By, Group By
- Aggregate Functions
- Joins (Inner, Left, Right, Full)
- Subqueries
- Case Statements
- Views
- Indexes
- SQL Queries Practice

## EXCEL (BASICS + FORMULAS)

- Introduction to Excel
- Cell Formatting
- Filters & Sorting
- Tables and Charts
- Formulas:  
SUM, AVERAGE, COUNT, IF, VLOOKUP, HLOOKUP, INDEX, MATCH, CONCATENATE, TEXT, LEFT, RIGHT
- Pivot Tables
- Data Validation
- Conditional Formatting
- Dashboard Design Basics

## TABLEAU (VISUALIZATION TOOL)

- Tableau Overview
- Tableau vs Power BI
- Connecting to Data
- Data Preparation
- Joins and Blends
- Tableau Interface Overview
- Dimensions and Measures
- Charts and Graphs
- Filters and Parameters
- Calculated Fields
- Groups, Sets, Hierarchies
- Dashboard & Story Creation
- Publishing and Sharing

## PYTHON BASICS FOR DATA ANALYTICS

- Introduction to Python
- Installing Python and Jupyter Notebook
- Python Data Types
- Variables and Operators
- Control Flow: If, Else, Elif
- Loops: For and While
- Lists, Tuples, Sets, Dictionaries
- String Manipulations
- Functions
- File Handling
- Exception Handling
- Basic NumPy and Pandas

# Thank you



**Thank You for Going Through Data Analytics Curriculum**  
**We hope this guide has provided a clear and structured learning path**  
**to strengthen your skills in Data Analytics .**

## **NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

 **Need Help or Guidance?**

**Feel free to contact our course support team:**  
**Course Coordinator**

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