

DATA ANALYTICS

**Python + DataBase + Excel +
Power BI + Project**

#Sri Sai Arcade, Door No. 7-1-455, 2nd Floor, Satyam Theatre Rd,
Beside Aditya Trade Centre, Ameerpet, Hyderabad, Telangana - 500 038.

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Follow Us :    

What is DataBase

- ◇ Diff types of DataBases with Examples
- ◇ Entity, Attributes, Relationships, E-R Diagram
- ◇ Datatypes
- ◇ SQL Commands → DDL, DML, DRL, TCL, DCL
- ◇ Diff types of Operators → in, between, is, like,
- ◇ Diff types clauses → Where, Order by, groupby , having
- ◇ Wild Characters → _, %, [], [^]
- ◇ Aggregate Functions
- ◇ Constraints
- ◇ default, identity keywords, IsNull() function
- ◇ Relationset Operators
- ◇ Joins, diff types of joins
- ◇ Sub Query
- ◇ Views, Diff types and conditions
- ◇ Stored Procedures
- ◇ Triggers, Indexes
- ◇ Normalization, Diff types
- ◇ Functions, Import and Export

Advanced Excel

1. Excel Basics

- ◇ Basics
- ◇ Worksheet Basics
- ◇ Data Formats
- ◇ Data Handling Basics Cut, Copy & Paste
- ◇ Saving and Printing Basics

2. Essential Formulas

- ◇ Basic Formula Operations
- ◇ Mathematical Functions 1
- ◇ Textual Functions Part 1
- ◇ Logical Functions
- ◇ Date-Time Functions
- ◇ Lookup functions (VLOOKUP, HLOOKUP, INDEX-MATCH, X-Lookup)

3. Data Tools

- ◇ Sorting, Filtering and Data Validation
- ◇ Text-to-columns and remove duplicates

- ◇ Advanced Filter option
- ◇ Formatting Data and Tables
- 4. Excel Charts**
- ◇ Importance of Data Visualization
- ◇ Elements of Charts
- ◇ The Easy way of Creating Charts
- ◇ Bar and Column Charts
- ◇ Formatting Charts Part 1
- ◇ Formatting Charts Part 2
- ◇ Line Charts
- ◇ Area Charts
- ◇ Pie and Doughnut Charts
- ◇ Scatter plot or XY Chart
- ◇ Waterfall Charts
- ◇ Sparklines
- ◇ Pivot Tables

5. Using ChatGPT with Excel

6. Macros

7. Power Query

8. Excel DashBoards

Power BI

1. Introduction to Power BI

- ◇ Introduction to BI(Business Intelligence Tools)
- ◇ Self-Service Business Intelligence Tools
- ◇ Introduction of Power BI
- ◇ Flow of Power BI
- ◇ Componenets of Power BI
- ◇ Process in Power BI

2. Power BI Desktop and Data Transformation

- ◇ Data source in Power BI
- ◇ Loading Data
- ◇ Views
- ◇ Query Editor
- ◇ Transform, clean, shape
- ◇ Manage Relationships
- ◇ Editing Relationships
- ◇ Cross Filter Direction
- ◇ Saving Workflile
- ◇ Measures

3. Data Analysis Expression(DAX)

- ◇ Introduction to DAX
- ◇ Data types in DAX
- ◇ DAX Operations
- ◇ DAX Calculations Types
- ◇ Steps to create calculated Columns
- ◇ Steps to create calculated Tables
- ◇ Measures in DAX
- ◇ DAX Syntax
- ◇ DAX Functions
- ◇ DAX Tables and Filtering

4. Data Visualization

- ◇ Introduction to Visuals
- ◇ Visualization charts
- ◇ Line Charts
- ◇ Area Charts
- ◇ Bar and column Charts
- ◇ Ribbon Charts
- ◇ Combo Charts
- ◇ Pie Chart
- ◇ Donut Chart
- ◇ Funnel Charts
- ◇ Waterfall Chart
- ◇ TreeMap Chart
- ◇ KPI Charts
- ◇ Interactive Charts

5. Power BI Services

- ◇ Introduction
- ◇ Creating Dashboards
- ◇ Quick Insights
- ◇ Configuring a Dashboard
- ◇ Power BI Q&A

6. Connectivity Modes

- ◇ Data Sources supported by Power BI
- ◇ Exploring Live Connections to Data Sources
- ◇ Connection Directly to DataBase
- ◇ Direct Query & import connectivity modes
- ◇ Data Gateways
- ◇ Publishing Reports on Power BI Service
- ◇ Scheduling Refresh

7. Power BI Report Server

- ◇ Architecture of Report Server
- ◇ Report Server vs Power BI Service

8. Power BI Dashboards

9. Using Python in Power BI

- ◇ Python Programming
- ◇ python scripts in BI
- ◇ Python integration with power BI

10. Project Work



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