Data Analyst Course

Transform your career into a Data Analyst

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🎯 **Job Placement Support**

🎥 **Live Interactive Classes**

★★★★★ **4.9 Rating on Google Reviews**

✓ **"Coding Made Fun Like a Game!"**

✓ **100% Job Oriented Curriculum**

✓ **Industry Expert Trainers with 20+ Years of Experience**

Duration
3 Months

Total Classes
90

Our Success Story

₹9-18L

Average Salary Package Per Annum

2000+

Students Trained Successfully

100+

Students Placed with 16L+ Salaries

"Transform Your Coding Passion into a Career Become a Skilled Data Analyst with Us"

Weekday & Weekend Batches | Hands-On Training with Expert Mentors

Data Analyst

Power BI

➤ **Overview of Power BI:**
- The Value Offering
- Licensing and Pricing
- Market Positioning

➤ **Power BI Desktop:**
- Overview of Power BI Desktop
- Similarities to Excel Power Pivot
- Similarities to Excel Power Query
- Technical Options & Settings
- Monthly Updates
- Introduction to Facts & Dimensions

➤ **Importing and Transforming Data**
- Importing Data from various sources
- Using Direct Query
- Query Editor Overview
- Understanding Query Design & the ETL Process
- Query Building Best Practice
- Understanding Applied Steps
- Data Transformations
- Cleaning data (covers many different methods)
- Merging Datasets - Unpivoting Data
- Combining Files from a Folder
- Appending Datasets

➤ **Data Modelling**
- Creating Relationships
- Handling Multiple Relationships with the Fact Table
- Default Summarization of Fields
- Custom Sorting of Columns
- Data Types & Formatting
- Optimizing Q&A - Creating Data Synonyms

➤ **Report Functionality:**
- Adding Drill-Downs
- Creating Drill-Through Reports
- Using Focus Mode
- Filtering Reports by Relative Dates
- Viewing the Underlying Data Driving a Visualization
- Customizing Report Visual Interactivity
- Exporting Data from Power BI
- Explain the Increase or Decrease in Visuals
- How to Create Historical Categorical Trends
- Build a Qty Shipped Vs Qty Sold Report

- Building Reports using Q&A
- Optimizing Report Slicers
- Building a Year Over Year Report
- Cross Highlighting or Cross Filtering

➢ Optimizing the Design:
- Adding & Optimizing Tool Tips
- Using the Format Painter
- Visual Alignment Tips
- Custom Page Sizing
- Using Logos & Custom Icons
- Making Enhancements with Shapes and Lines
- Formatting Tips & Tricks
- Best Practice Guidelines and Development Tips
- Removing or Hiding Data Model Redundancies

➢ Power BI Bookmarking
- Understanding the Value Offering
- Using Bookmarks for Presentations
- How to use Bookmarks to Enhance the Visual Story
- Switching Between Chart Types
- Use Buttons or Images with Bookmarks
- Creating a Report Menu Page with Bookmarks
- Consolidating Report Views onto a Single Page

➢ Report Building : (DAX)
- Build a Time Example Intelligence Report
- Introduction to DAX
- •Understanding DAX Syntax
- Implicit Vs Explicit Measures
- Creating Calculated Measures & Calculated Columns
- Understanding Base Measures & Metrics

➢ Commonly Used DAX Functions :
- Sum, Average, Count, DistinctCount - Time Intelligence (MTD, QTD, YTD, Prior Year) - Understanding 'Calculate' and the filter context - IF, HasOneValue - Using a Safe Divide Function - UserRelationship Function - Using the Blank() Function.

➢ Using What-if Analysis:
- Understanding the What-if Parameter Concepts
- Build a What-if Analysis Report
- DAX: 'GENERATESERIES' & 'SELECTEDVALUE'
- Showcasing Other Use Cases

➢ Slicing Reports by Measures:
- How to Switch between Comparison Metrics
- Creating Helper tables in Power BI
- How to Capture Slicer Selections with DAX
- Using the DAX 'SWITCH' Function
- Creating Dynamic Headers

- Showcasing Other Use Cases

➢ **Dynamic Row Level Security (RLS):**
- Usage Scenarios
- Mapping User IDs to the data model
- DAX Functions for Returning Usernames
- Adding Roles in Power BI Desktop
- Assign Users to Power BI Security

➢ **Power BI Services:**
- Understanding Row Level Security
- Creating and Testing Security Roles
- Publishing Models to the Cloud Service
- Adding Users to Security Defined Roles
- Basic Sharing of Dashboards & Reports
- Creating App Workspaces
- Collaborating on Reports
- Publishing Organisational Apps for Distribution of Content
- Adding Users & Editing Workspaces
- Connecting to Apps
- Organisational Content Packs
- Role of a Power BI Cloud Service Administrator

➢ **Data Refreshing:**
- Overview of the Data Gateway
- Scheduling Data Refreshes
- Refreshing On-Demand

➢ **Data Fabric**
- Introduction of power bi Fabric & Deep overview of Fabric

Power BI Projects
Sales & Returns
Competitive Marketing Analysis
Corporate Spend
Employee Hiring and History
Revenue Opportunities
Store Sales
Regional Sales

Customer Profitability
Human Resources / Employee Hiring and History
IT Spend Analysis / Corporate Spend
Opportunity Analysis / Revenue Opportunities
Procurement Analysis
Regional Sales
Retail Analysis / Store Sales
Sales and Marketing / Competitive Marketing Analysis
Supplier Quality

Advance Excel

What-If Analysis

1. Goal Seek
2. Data Tables (PMT Function)
3. Solver Tool
4. Scenario Analysis

Data Validation

1. Number, Date & Time Validation
2. Dynamic Dropdown List Creation using Data Validation – Dependency List
3. Custom validations based on a formula for a cell
4. Text and List Validation

Logical Analysis

1. If Function
2. Complex if and or functions
3. Nested If
4. How to Fix Errors – iferror

Lookup Functions

1. Vlookup / HLookup
2. Vlookup with Helper Columns
3. Creating Smooth User Interface Using Lookup
4. Index and Match
5. Reverse Lookup using Choose Function
6. Nested VLookup
7. Worksheet linking using Indirect

Arrays Functions

1. What are the Array Formulas, Use of the Array Formulas?
2. Array with if, len, and mid functions formulas.
3. Basic Examples of Arrays (Using ctrl+shift+enter).
4. Advanced Use of formulas with Array.
5. Array with Lookup functions.

Here are the Uses of Microsoft Excel in Daily Life

Pivot Tables

1. Creating Simple Pivot Tables
2. Classic Pivot table
3. Basic and Advanced Value Field Setting
4. Calculated Field & Calculated Items
5. Grouping based on numbers and Dates

Excel Dashboard

1. Planning a Dashboard
2. Adding Dynamic Contents to Dashboard
3. Adding Tables and Charts to Dashboard

Slicers and Charts

1. Using SLICERS, Filter data with Slicers
2. Various Charts i.e. Bar Charts / Pie Charts / Line Charts
3. Manage Primary and Secondary Axis

VBA Macro

Introduction to VBA

1. What Is VBA?
2. Procedure and functions in VBA
3. Recording a Macro
4. What Can You Do with VBA?

Variables in VBA

1. What are Variables?
2. Using Non-Declared Variables
3. Using Const variables
4. Variable Data Types

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SQL

	TOPIC NAME	HOURS
1	Introduction to Database RDBMS	
2	Filebased system Database Approach	2
3	SQL introductionSQL commands	
4	Comments,DataTpes of SQL	1
5	Explaination of DDL commands	1
6	DML,DQL commands	1
7	TCL DCL commands	1
8	Queries explanations	1
9	Nested Queries	1
10	Views	2
11	Sequence,index	2
12	Set operators	1
13	SQL joins	1
14	constraints	3
16	Merge ,NULL in sql	1
17	Aggregate functions	1
18	SQL functions	2

Core Python

Python Core Topics

1. **Basics of Python**
   - **Introduction**
   - **Features**
   - **Installation**
2. **Fundamentals**
   - **Identifiers**
   - **Variables**
3. **Data Types**
   - **Integers**
   - **Floats**
   - **Strings**
   - **Booleans**
4. **Keywords**
5. **Operators**
   - **Arithmetic operators**
   - **Comparison operators ● Assignment Operators**
   - **Logical Operators**
   - **Bitwise Operators**
   - **Membership Operators**
   - **Identity Operators**
6. **Control Flow Statements**
   Conditional statements (if, elif, else)
   - **Loops (for, while)**

- **Break, continue and pass statements**

7. **Functions**
   - **Advantages of Functions**
   - **Defining and calling functions**
   - **Function parameters and return values**
   - **Recursion**
   - **Python Built-in Functions**
   - **Lambda Functions**

8. **Strings**
   - **String manipulation and formatting**
   - **Common string methods**

9. **Python Data Structures**
   - **List**
   - **Tuple**
   - **Set**
   - **Dictionary**

10. **Error Handling**
    - **Handling exceptions with try, except, finally**
    - **Raising custom exceptions**

11. **Python Date Time**
    - **Date Module**
    - **Time Module**

Tableau

What is Tableau

1. **Introduction and Overview**
   - Why Tableau? Why Visualization?
   - Level Setting – Terminology
   - Getting Started – creating some powerful visualizations quickly
   - The Tableau Product Line
   - Things you should know about Tableau

2. **Getting Started**
   - Connecting to Data and introduction to data source concept
   - Working with data files versus database server
   - Understanding the Tableau workspace
   - Dimensions and Measures
   - Using Show Me!
   - Tour of Shelves (How shelves and marks work)
   - Building Basic Views
   - Help Menu and Samples
   - Saving and sharing your work

3. **Analysis**

   Creating Views
   - Marks
   - Size and Transparency
   - Highlighting
   - Working with Dates
   - Date aggregations and date parts
   - Discrete versus Continuous
   - Dual Axis / Multiple Measures
   - Combo Charts with different mark types
   - Geographic Map Page Trails
   - Heat Map
   - Density Chart
   - Scatter Plots
   - Pie Charts and Bar Charts
   - Small Multiples
   - Working with aggregate versus disaggregate data
   - Analyzing
   - Sorting & Grouping

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- Aliases
- Filtering and Quick Filters
- Cross-Tabs (Pivot Tables)
- Totals and Subtotals Drilling and Drill Through
- Aggregation and Disaggregation
- Percent of Total
- Working with Statistics and Trend lines

4. **Getting Started with Calculated Fields**

- Working with String Functions
- Basic Arithmetic Calculations
- Date Math
- Working with Totals
- Custom Aggregations
- Logic Statements

5. **Formatting**

- Options in Formatting your Visualization
- Working with Labels and Annotations
- Effective Use of Titles and Captions
- Introduction to Visual Best Practices

6. **Building Interactive Dashboard**

- Combining multiple visualizations into a dashboard
- Making your worksheet interactive by using actions and filters
- An Introduction to Best Practices in Visualization
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