



TECHHUB SOLUTIONS

...be step ahead in your field

DATA ANALYTICS

Main Topic	Sub Topic
Excel (Basics to Advanced)	• Introduction to Excel: Workbooks, formatting, data types, formulas, operators • Functions: SUM, AVERAGE, IF, COUNTIF, VLOOKUP, INDEX–MATCH, IFERROR • Data Cleaning: TRIM, SUBSTITUTE, TEXT, CONCAT, FIND, LEFT, RIGHT, MID • Data Validation, Conditional Formatting, Sorting & Filtering • Pivot Tables, Pivot Charts, and Dashboard Creation • Power Query & Power Pivot: Data extraction, cleaning, and transformation • Automation using Macros & Basic VBA
MySQL (Database Management)	• Introduction to Databases and RDBMS Concepts • SQL Commands: DDL, DML, DCL, TCL • Constraints: Primary Key, Foreign Key, Domain & Referential Integrity • Queries: SELECT, WHERE, GROUP BY, HAVING, ORDER BY • Joins: Inner, Left, Right, Full, Cross, Self Joins • Subqueries, Views, Triggers, Indexing, Stored Procedures • Analytical & Ranking Functions: RANK, DENSE_RANK, ROW_NUMBER
Tableau (Data Visualization)	• Introduction to Tableau and Data Visualization Basics • Connecting Data Sources (Excel, MySQL, etc.) • Dimensions, Measures, Filters, Parameters, and Sets

	• Calculated Fields and Quick Table Calculations • Data Blending, Joins, and Relationships • Charts: Bar, Line, Donut, Funnel, Word Cloud, Gantt, etc. • Dashboards & Storyboards: Interactive and Drill-Down Dashboards • Publishing Dashboards on Tableau Public
Power BI (Business Intelligence)	• Introduction to Power BI Desktop • Data Connections: Excel, RDBMS, Web • Data Modelling: Relationships, Hierarchies, Calculated Columns • Visualizations: Charts, Tables, KPIs, Cards, Maps, Custom Visuals • Filters, Slicers, and Drill-Down • DAX: Calculated Columns, Measures, and Basic DAX Functions • Publishing and Sharing Reports, Row-Level Security, Data Refresh
Python (Basics for Data Analysis)	• Introduction to Python and Anaconda • Data Types, Variables, Operators, Control Statements, Loops, Functions • Modules: Math, Datetime, Calendar, Regular Expressions • Libraries: • NumPy – Arrays and numerical operations • Pandas – Data Frames, Cleaning, Analysis • Matplotlib & Seaborn – Data Visualization
Statistics & Data Analytics Fundamentals	• Introduction to Statistical Analysis • Probability, Sampling, Estimation, Hypothesis Testing

	• Correlation, Regression, ANOVA, Chi-Square • Data Cleaning & Imputation Techniques • Central Tendency, Dispersion, Skewness, Kurtosis, Box Plot • Descriptive, Diagnostic, Predictive & Prescriptive Analytics • Data Visualization for Decision-Making
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