

Data Analytics

Turn raw spreadsheets into executive dashboards that get you hired — hands-on SQL, Python, and Power BI, capped with a live business portfolio project.

DURATION
12 Weeks

COMMITMENT
8–10 hrs/week

LEVEL
Beginner to
Intermediate

FORMATS
Online Live · Offline
(Coimbatore) ·
Weekend Batch · Self-
Paced

Tools & tech stack

SQL

Python

Power BI

Excel

Statistics

SQL (PostgreSQL/BigQuery)

Jupyter Notebook

scikit-learn

Claude / ChatGPT

Who it's for

- Beginners who want to work confidently with real business data

What you'll learn

- Data cleaning and preparation with Python and Excel
- Exploratory analysis and visualization techniques
- Building dashboards that communicate insights clearly
- A capstone project analyzing a real-world dataset end-to-end

Curriculum

01 Part 1: Basic Statistics

- Introduction to Data Analytics
- Population Sampling and Data Collection
- Descriptive Statistics
- Probability and Distributions
- Relationships and Statistical Testing
- Business Analysis Techniques

02 Part 2: Microsoft Excel

- Getting Started with Excel
- Formatting and Data Entry
- Formulas and Core Functions
- Text Date and Lookup Functions
- Data Cleaning and Preparation
- Analysis with Pivot Tables
- Charts Dashboards and Power Query

03 Part 3: SQL

- Database Fundamentals
- Basic Data Retrieval
- Functions Grouping and Business Logic
- Joins and Set Operations
- Subqueries CTEs and Views
- Window Functions and Advanced Analysis
- Data Quality and Query Performance

04 Part 4: Python for Data Analytics

- Setup and Python Fundamentals
- Data Structures and Program Flow
- Functions Modules and Error Handling
- NumPy
- Pandas Fundamentals
- Cleaning and Transforming Data
- Visualisation and Exploratory Data Analysis
- Data Connections and Automation

05 Part 5: Microsoft Power BI

- Power BI Fundamentals
- Power Query
- Data Modelling
- DAX Fundamentals
- Time Intelligence
- Visualisation and Interaction
- Dashboard Design and Storytelling
- Publishing Security and Performance

06 Part 6: Projects and Portfolio

- Tool Based Mini Projects
- Final Integrated Capstone Project

07 AI Pro

- Using Claude, ChatGPT, and Perplexity to accelerate cleaning and EDA
- Natural-language-to-SQL tools and LLM APIs for text data
- Verifying AI-generated analysis before trusting it
- Project: AI-Assisted Analytics Workflow

Projects

- Retail sales performance dashboard modeling a multi-table dataset with drill-down KPIs
- Customer churn analysis with EDA and a baseline classification model
- Marketing A/B test readout with a significance test and a ship/no-ship recommendation
- Support-ticket insight pipeline using an LLM API to classify topics and sentiment at scale
- Automated weekly report generator that drafts narrative summaries from fresh data

Self-paced from ₹1,999 · EMI options available · certificate released for a one-time ₹100 fee · batch dates and fees confirmed at enrolment

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