



# Data Analysis

Category: AI & Tech | Duration: 2 Months (8 Weeks)

~~Rs. 6,000~~

**Rs. 4,000**

You Save  
Rs. 2,000

+ GST (18%) as applicable

## Course Overview

A practical course that takes learners from spreadsheet basics to Python-based data analysis, visualization, SQL querying, and introductory machine learning - culminating in a real dataset project and dashboard.

Prerequisites	Tools & Technologies
Basic mathematics and computer literacy. No prior coding experience required.	Excel, Python (NumPy, Pandas, Matplotlib, Seaborn), SQL, Power BI/Tableau, Jupyter Notebook

## Curriculum

### Week 1: Data Analysis Foundations

- Role of a data analyst, analytics workflow
- Excel for data analysis - formulas, pivot tables, charts
- Descriptive statistics basics

### Week 2: Python for Data Analysis

- Python basics for data work
- Introduction to NumPy and Pandas
- Reading, cleaning, and transforming datasets

### Week 3: Data Visualization

- Visualization principles - choosing the right chart
- Matplotlib and Seaborn for charts and plots
- Building visual stories from data

### Week 4: SQL for Analysts

- SQL basics - SELECT, WHERE, JOIN, GROUP BY
- Aggregations, subqueries, and window functions
- Querying real-world datasets

### Week 5: Exploratory Data Analysis (EDA)

- Handling missing values and outliers
- Feature understanding and correlation analysis
- End-to-end EDA on a sample business dataset



## Week 6: Statistical Analysis

- Probability and distributions refresher
- Hypothesis testing and confidence intervals
- A/B testing fundamentals

## Week 7: Intro to Machine Learning for Analysts

- Regression and classification basics
- Using scikit-learn for simple predictive models
- Evaluating model performance

## Week 8: Capstone Project & Dashboard

- End-to-end analysis on a real-world dataset
- Building an interactive dashboard (Power BI/Tableau)
- Project presentation and code review

## What You Will Learn

- Clean, transform, and analyze data using Excel and Python
- Write SQL queries to extract insights from databases
- Create effective visualizations and dashboards
- Apply basic statistical methods to support decisions
- Build simple predictive models using scikit-learn
- Deliver an end-to-end data analysis capstone project

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To register your interest for this course, fill out the interest form on our website or contact us directly using the details below. Syllabus content is subject to minor changes to keep pace with industry updates.