DATA ANALYTICS TRAINING PROGRAM

Complete Syllabus

Data by Day, Iron by Night

Free Demo Session (30 mins)

Introduction to Real-World Data Analytics

- What is Data Analytics?
- Data Analyst vs Data Scientist vs BI Developer
- Career opportunities
- Salary roadmap
- Required skills
- Live dashboard demonstration
- Excel, SQL & Power BI overview
- Learning roadmap
- Q&A

Course Packages

Package	Duration
Free Demo Session	30 mins
Excel Only	10–15 sessions
SQL + Excel	20–30 sessions
Power BI + Excel	20–30 sessions
SQL + Power BI	25–35 sessions
Complete Data Analyst Program	40–50 sessions

1 hour / session, alternate days
Sessions on Google Meet / Zoom
Evening, 4 PM – 12 AM — pick a suitable 1-hr slot

Choose one & learn from an industry expert.

Excel Only

10–15 Sessions ·

Module 1 — Excel Basics

Excel Interface • Workbook & Worksheet • Rows, Columns • Data Types • Formatting • Cell References • Shortcuts

Module 2 — Data Cleaning

Remove Duplicates • Text to Columns • Flash Fill • Find & Replace • Data Validation • Conditional Formatting

Module 3 — Essential Formulas

Mathematical

SUM • SUMIF • SUMIFS • ROUND • ABS

Logical

IF • IFS • AND • OR • IFERROR

Lookup

XLOOKUP • VLOOKUP • HLOOKUP • INDEX MATCH

Text

LEFT • RIGHT • MID • LEN • CONCAT • TEXTJOIN • TRIM

Date

TODAY • NOW • YEAR • MONTH • DATEDIF • EOMONTH

Module 4 — Pivot Tables

Creating Pivot Tables • Grouping • Filters • Slicers • Calculated Fields • Pivot Charts

Module 5 — Dashboards

KPI Cards • Charts • Interactive Dashboard • Dynamic Charts • Slicers • Dashboard Design Principles

Module 6 — Business Use Cases

Sales Report • Employee Report • Inventory Tracker • Profit Analysis • Customer Analysis

SQL + Excel

20–30 Sessions ·

Includes the complete Excel syllabus (previous page), PLUS the SQL modules below.

SQL Module 1 — Introduction

Database • RDBMS • SQL Server • SSMS Installation

SQL Module 2 — Basic SQL

SELECT • WHERE • DISTINCT • ORDER BY • TOP

SQL Module 3 — Filtering

LIKE • IN • BETWEEN • NULL • Wildcards

SQL Module 4 — Functions

Aggregate Functions • String Functions • Date Functions • Conversion Functions

SQL Module 5 — Grouping

GROUP BY • HAVING

SQL Module 6 — Joins

INNER JOIN • LEFT JOIN • RIGHT JOIN • FULL JOIN • SELF JOIN • CROSS JOIN

SQL Module 7 — Subqueries

Scalar • Correlated • Nested

SQL Module 8 — CTEs

Common Table Expressions

SQL Module 9 — Window Functions

ROW_NUMBER() • RANK() • DENSE_RANK() • LEAD() • LAG()

SQL Module 10 — Case Statements

CASE WHEN

SQL Module 11 — Views

Create Views • Update Views

SQL Module 12 — Stored Procedures (Basics)

Introduction to Stored Procedures

SQL Module 13 — SQL Interview Questions

50+ Questions • Real Company Examples

Power BI + Excel

20–30 Sessions ·

Includes the complete Excel syllabus (page 2), PLUS the Power BI modules below.

Power BI Module 1 — Power BI Introduction

Installation • Interface • Data Sources

Power BI Module 2 — Power Query

Import Data • Cleaning • Merge • Append • Transformations

Power BI Module 3 — Data Modeling

Relationships • Star Schema • Snowflake Schema

Power BI Module 4 — DAX

Basic

SUM • COUNT • DISTINCTCOUNT

Intermediate

CALCULATE • FILTER • RELATED • SWITCH

Time Intelligence

YTD • MTD • SAMEPERIODLASTYEAR

Power BI Module 5 — Visualizations

Tables • Matrix • Cards • KPI • Bar Charts • Pie Charts • Maps • Scatter • Waterfall • Funnel

Power BI Module 6 — Dashboard Design

Theme • Bookmarks • Drill Through • Tooltips • Navigation Buttons

Power BI Module 7 — Publishing

Power BI Service • Refresh • Sharing Reports

Power BI Module 8 — Business Dashboard

Build complete dashboard from scratch

SQL + Power BI

25–35 Sessions ·

Includes the complete SQL syllabus and the complete Power BI syllabus (previous pages), PLUS the additional topics below.

SQL + Power BI — Additional Topics

SQL to Power BI Connectivity • Import vs DirectQuery • Incremental Refresh • Dataflows Introduction • Performance Optimization • End-to-End Dashboard Project

🚀 Complete Data Analyst Program

40–50 Sessions ·

Includes Excel + SQL + Power BI (all previous pages), PLUS the modules below.

Module 1 — Statistics for Data Analysts

Mean • Median • Mode • Standard Deviation • Percentiles

Module 2 — Business Understanding

Sales Analytics • HR Analytics • Finance Analytics • Manufacturing Analytics

Module 3 — Real Projects (Guided)

Project 1: Sales Dashboard • Project 2: HR Analytics Dashboard • Project 3: Inventory Dashboard • Project 4: Customer Analytics

Module 4 — Resume Building

ATS Resume • Project Section • Skills Section • LinkedIn Profile Optimization

Module 5 — GitHub Portfolio (Optional)

Upload Projects • Documentation

Module 6 — Interview Preparation

SQL Interview

100 Questions

Excel Interview

Scenario Based Questions

Power BI Interview

DAX Questions • Dashboard Questions

Module 7 — Mock Interviews

Mock Interview 1

Technical Round • HR Round • Feedback

Mock Interview 2

Complete Company Simulation • Improvement Plan

Module 8 — Project Guidance

Students will build

End-to-End Excel Dashboard • SQL Database Analysis • Power BI Interactive Dashboard

Support

Mentor support until project completion

Module 9 — Placement Preparation

Resume Review • LinkedIn Optimization • Naukri Profile Setup • Job Search Strategy • Interview Tips • Salary Negotiation Basics • Applying to Companies

🎯 Final Deliverables

Every student will complete the course with:

- ✓ Excel Dashboard Project
- ✓ SQL Project
- ✓ Power BI Dashboard Project
- ✓ ATS-Friendly Resume
- ✓ LinkedIn Profile Optimization
- ✓ 2 Mock Interviews
- ✓ Interview Question Bank
- ✓ Real Business Datasets
- ✓ Course Completion Certificate (if you choose to provide one)
- ✓ Lifetime Notes & Practice Files
- ✓ Job Application Guidance