

FULL CURRICULUM • 2026

Data Analytics

Find the story hidden in the data — and get hired to tell it.

Every module, every lesson — the complete syllabus, end to end.

40

MODULES

259

LESSONS

5

MONTHS

₹22,000

FULL PROGRAMME

What this course covers

1

Level 1 • Beginner

How to connect with mentors • Introduction • Excel Basics

1 month • 12 modules • 42 lessons • ₹5,500

2

Level 2 • Intermediate

SQL Introduction • Installation and getting started • Database Basics

2 months • 13 modules • 48 lessons • ₹7,000

3

Level 3 • Advanced

Views and Indexes • String Functions • Mathematical Functions

2 months • 15 modules • 169 lessons • ₹9,500

The whole journey

This is the complete syllabus for Data Analytics — 40 modules and 259 lessons, in the order you will learn them. The level markers show how far each stage carries you, but the curriculum runs as one continuous path from the first lesson to the last.

1

LEVEL 1

Beginner

How to connect with mentors · Introduction · Excel Basics

1 month · 12 modules · 42 lessons · ₹5,500

- **1. How to connect with mentors** 1 lessons

 - How to connect with mentors
- **2. Introduction** 1 lessons

 - Introduction to course
- **3. Excel Basics** 5 lessons

 - Basics
 - Worksheet Basics
 - Data Formats
 - Data Handling Basics Cut, Copy & Paste
 - Saving and Printing Basics
- **4. Essential Formulas** 8 lessons

 - Basic Formula Operations
 - Mathematical Functions 1
 - Mathematical Functions 2
 - Textual Functions Part 1
 - Textual Functions 2
 - Logical Functions
 - Date-Time Functions
 - Lookup functions (VLOOKUP,HLOOKUP,INDEX-MATCH)
- **5. Xlookup - Only for Excel 2021 and Office 365** 4 lessons

 - XLOOKUP as a replacement of VLOOKUP
 - Handling NA and approximate match in XLookup
 - Wildcard matching in XLOOKUP
 - Search modes
- **6. Data Tools** 4 lessons

 - Sorting, Filtering and Data Validation
 - Text-to-columns and remove duplicates
 - Advanced Filter option
 - Formatting Data and Tables

- **7. Excel Charts** 13 lessons
 - Importance of Data Visualization
 - Elements of Charts
 - The Easy way of Creating Charts
 - Bar and Column Charts
 - Formatting Charts Part 1
 - Formatting Charts Part 2
 - Line Charts
 - Area Charts
 - Pie and Doughnut Charts
 - Scatter plot or XY Chart
 - Waterfall Charts
 - Sparklines
 - Pivot Tables
- **8. Pivot Tables and Pivot Charts** 2 lessons
 - Pivot Tables
 - Pivot Charts
- **9. Map Charts- Only for Excel 2019 & above** 1 lessons
 - Maps Chart
- **10. Using ChatGPT with Excel** 1 lessons
 - Use ChatGPT For Excel Problems
- **11. Macros** 1 lessons
 - Macros
- **12. Importing Data from External Sources** 1 lessons
 - Importing Data from Websites Excel 2019 and 365

2

LEVEL 2

Intermediate

SQL Introduction · Installation and getting started · Database Basics

2 months · 13 modules · 48 lessons · ₹7,000

- **13. SQL Introduction** 1 lessons
 - Introduction
- **14. Installation and getting started** 1 lessons
 - Installing SQL Server and SSMS in your system

○	15. Database Basics	3 lessons
	• What is SQL • Tables and DBMS • Types of SQL Commands	
○	16. Fundamental SQL Statements	12 lessons
	• CREATE • INSERT • Primary Key Foreign Key • Import data from file • Select • SELECT DISTINCT • WHERE • Logical Operators • UPDATE • DELETE • ALTER Part 1 • ALTER Part 2	
○	17. Restore and Backup	3 lessons
	• Restore and Backup • Backup and Restore-Adventure Works DB • Creating tables using CSV files	
○	18. Selection Commands: Filtering	3 lessons
	• IN • BETWEEN • LIKE	
○	19. Selection Commands: Ordering	3 lessons
	• Side Lecture Commenting in SQL • ORDER BY • TOP (LIMIT)	
○	20. Aliasing	1 lessons
	• AS	
○	21. Aggregate Commands	4 lessons
	• COUNT • SUM • AVG • MIN MAX	
○	22. GROUP BY	2 lessons
	• GROUP BY • HAVING	
○	23. Conditional Statement	1 lessons
	• CASE WHEN	



24. JOINS

11 lessons

- Introduction to Joins
- Concepts of Joining and Combining Data
- Preparing the Data
- INNER JOIN
- LEFT JOIN
- RIGHT JOIN
- FULL OUTER JOIN
- CROSS JOIN
- INTERSECT
- EXCEPT
- UNION ALL



25. Subqueries

3 lessons

- Part 1 - Subquery in WHERE Clause
- Part 2 - Subquery in FROM clause
- Part 3 - Subquery in SELECT Clause

3

LEVEL 3

Advanced

Views and Indexes · String Functions · Mathematical Functions

2 months · 15 modules · 169 lessons · ₹9,500



26. Views and Indexes

2 lessons

- VIEW
- INDEX



27. String Functions

7 lessons

- LENGTH
- UPPER LOWER
- REPLACE
- TRIM LTRIM RTRIM
- Concatenation
- SUBSTRING
- LIST AGGREGATION



28. Mathematical Functions

4 lessons

- CEIL FLOOR
- RANDOM
- ROUND
- POWER



29. DATE TIME Functions

3 lessons

- Current date time
- AGE - DATEDIFF
- EXTRACT - DATE AND TIME PARTS



30. Pattern(String)Matching

3 lessons

- PATTERN MATCHING BASICS
- PATTERN MATCHING PART 1
- advance pattern matching part 2

○ 31. Window functions

10 lessons

- Introduction to window functions
- Introduction to Row numbers
- Implementing row number in SQL
- RANK and DENSE_RANK
- NTILE
- AVERAGE Window Function
- COUNT WINDOW FUNC
- SUM TOTAL
- RUNNING TOTAL
- LAG and LEAD

○ 32. Data type conversion functions

1 lessons

- Converting number date to string and string to date

○ 33. Deep dive into Python

52 lessons

- Python introduction and installation
- Anaconda installation
- Jupyter Walkthrough
- Data Types and Basics of OOP
- Numbers
- Maths
- Operator precedence
- Strings Introduction
- Type conversion and Escape Sequences
- Strings 101
- Booleans
- Lists
- List Methods
- List Patterns and Unpacking
- None
- Dictionary
- Dict Methods
- Tuples
- Sets
- Set Methods
- Conditional Logic
- Truthy and Falsy
- Ternary Operator
- Short Circuiting (Optional)
- Logical Operators
- Exercise - Logical Operators
- == vs is
- For Loop
- Iterables
- Exercise - Tricky Counter
- range() and enumerate()
- While Loop
- Break , continue , pass
- Exercise - Our first GUI
- Exercise - Find Duplicates
- Functions
- Parameters & Arguments
- Keyword arguments and Default parameters
- Return
- Functions vs Methods
- Docstring
- Clean Code
- args and kwargs
- Exercise - Functions
- Scope
- Global and nonlocal
- Pure Functions
- Map()
- Filter() & Zip()
- Reduce()
- Lambda
- Exception Error handling

- ## 34. Projects 5 lessons

 - Project Objective and Creating Tables in SQL
 - SQL Queries across multiple tables for data extraction
 - Analysis, Validation and Visualization using Excel
 - Creating a Risk Prediction model in Python
 - Deploying Healthcare Risk stratification App
- ## 35. Modules, Packages and Libraries 5 lessons

 - Modules
 - Packages
 - Ways to Import
 - Built -in Modules
 - Python Libraries
- ## 36. Numpy 12 lessons

 - Numpy Introduction
 - Numpy Datatypes and Attributes
 - Creating Numpy Arrays
 - Numpy Random Seed
 - Viewing Arrays and Matrices
 - Manipulation of Arrays (Arithmetic)
 - Manipulating Arrays (Aggregate)
 - Variance and Standard Deviation
 - Reshaping and Transpose
 - Dot product
 - Comparison Operator and Sorting
 - Image to Numpy Array
- ## 37. Data Analysis using Pandas 8 lessons

 - Pandas Overview
 - Series, Data Frames and CSV
 - Describing Data with Pandas
 - Selecting and Viewing Data
 - Asking the right questions
 - Manipulating Data using Pandas
 - Manipulating Data with Pandas 2
 - Apply Function
- ## 38. Data Visualization using Matplotlib, Seaborn and Plotly 20 lessons

 - Matplotlib Introduction
 - Using Matplotlib
 - Matplotlib Workflow (Explicit Method)
 - Scatter and Bar plot
 - Histograms and Subplots
 - Subplots Alternate Method
 - Plotting from Pandas Series
 - Plotting from Pandas DataFrame
 - Plotting from Pandas DataFrame 2
 - Plotting from Pandas DataFrame 3
 - Plotting from Pandas DataFrame 4
 - Plotting from Pandas DataFrame 4
 - Plotting from Pandas DataFrame 6
 - Customizing our Plots
 - Customizing our Plots 2
 - Seaborn Introduction
 - Seaborn Univariate Analysis
 - Seaborn Bivariate Analysis
 - Seaborn Plotting Relationships
 - Plotly Express

○ 39. Power BI

31 lessons

- Introduction to Power BI
- Data Transformation + Data Types
- Replace Text + Extract + Split
- Trim + Clean
- Assignment
- Data Modelling
- Visualization
- ETL
- Column Chart
- Pie Chart
- Line Chart
- Table
- Slicers
- Filters
- Tree Visualization
- Logical DAX
- Text DAX
- DateTime DAX
- Problem-1
- Problem-2
- Problem-3
- Problem-4
- Problem-4 Extended
- Problem-5
- Problem-6
- Bookmarks
- RLS
- Field Parameters
- AI Visuals + Quick Measures
- Folder Problem
- SQL+PowerBI

○ 40. Job Readiness & Placement Support

6 lessons

- How to build a Resume
- Customizing the Resume as per specific Job
- Interview Preparation Guidelines
- Short Mock Interview Flow
- How to Apply for Jobs
- Profile Enhancement and Upskilling

Certificates & what comes next

You receive a certificate at the end of every level you finish. Join for a single level or the full programme — the choice is yours. Learners who stand out may be invited to work on live client projects as interns; these places are merit-based, limited, and depend on projects being available.