

MOST ENROLLED TRACK

Data Analytics Course Syllabus

Data Analyst Course in Nagpur

Six months of hands-on training in Advanced Excel, SQL, Power BI or Tableau, Python and applied statistics, plus a month of corporate grooming. Classroom, online and weekend batches in Nagpur.

DURATION

6 months

FEE

₹49,999

MODE

Classroom / Online / Weekend

LEVEL

Beginner to intermediate

MODULES

7

TOPICS

37

TOOLS

16

PROJECTS

4

PREREQUISITES

None. The course opens with SQL and Excel and introduces Python gradually.

LANGUAGE

English, with Hindi and Marathi explanation on request

CERTIFICATION

TECHTONIC LAB completion certificate, plus guidance towards Microsoft PL-300

COURSE CODE

TL-DA-001

₹49,999 all-inclusive · 3 instalments

TOOL STACK

Everything you will touch

Named in full — a syllabus that says only “BI tools” is hiding something.

MySQL

MySQL Workbench

Microsoft Power BI

Tableau Desktop

Python

pandas

NumPy

Jupyter

Excel

Microsoft Excel

Power Query

VBA

AWS / Azure

Generative AI

GitHub

LinkedIn

MODULE BY MODULE

The whole thing, in order

Modules run in this sequence deliberately — each one assumes the last.

01 Introduction to data analysis

□ Weeks 1–2

TOPICS

- ✓ What data and data analytics are, and the global scope
- ✓ Analytics across domains, and the BI landscape
- ✓ Understanding stakeholder vision and asking effective questions
- ✓ Data Analyst vs Business Analyst, and the analyst road map
- ✓ Types and methods of data analysis, and the analysis process

YOU FINISH WITH

Frame a real business question and design the analysis around it

02 SQL and databases

□ Weeks 3–7

TOPICS

- ✓ DBMS vs RDBMS, MySQL setup, DDL/DML/DQL/TCL/DCL
- ✓ Constraints, keys, operators and set operators
- ✓ All join types, subqueries and correlated subqueries
- ✓ CTEs, recursive CTEs, and window functions (rank, lead/lag, running totals)
- ✓ Stored procedures, functions, views, cursors and triggers
- ✓ Data modelling, ER diagrams and normalisation (1NF–BCNF)

TOOLS

MySQL

MySQL Workbench

YOU FINISH WITH

Answer a set of business questions against a normalised retail database

03 Power BI and Tableau

□ Weeks 8–12

TOPICS

- ✓ Power Query editor, connections and transformations
- ✓ Full visual library, data modelling and relationships
- ✓ DAX: aggregation, filter, relationship, date and time-intelligence functions
- ✓ Report filters, drill-through, row-level security and publishing
- ✓ Tableau: connections, in-built and advanced charts, calculations and filters

TOOLS

Microsoft Power BI

Tableau Desktop

YOU FINISH WITH

Build a stakeholder-ready executive dashboard and present it live

04 Python for data analysis

□ Weeks 13–16

TOPICS

- ✓ Python fundamentals, data structures, loops and functions
- ✓ Exception handling, classes and objects
- ✓ NumPy arrays, broadcasting and universal functions
- ✓ pandas for reading, cleaning and manipulating data
- ✓ Matplotlib and Seaborn for statistical and exploratory plots

TOOLS

Python

pandas

NumPy

Jupyter

YOU FINISH WITH

End-to-end exploratory analysis of a public dataset, written up as a notebook

05 Applied statistics

□ Weeks 17–19

TOPICS

- ✓ Descriptive and inferential statistics
- ✓ Population vs sample, variables and distributions
- ✓ Hypothesis testing, Type I and Type II errors
- ✓ T-test, ANOVA and Chi-square
- ✓ Covariance and correlation

TOOLS

Python

Excel

YOU FINISH WITH

Design and evaluate a hypothesis test on a real dataset

06

Advanced Excel

□ Weeks 20–22

TOPICS

- ✓ Lookup family — VLOOKUP, HLOOKUP, XLOOKUP, INDEX/MATCH, OFFSET
- ✓ Data validation, PivotTables and slicers
- ✓ Dashboard creation and formatting
- ✓ Power Query and Power Pivot
- ✓ Macros and VBA — subs, ranges, conditions and loops

TOOLS

Microsoft Excel

Power Query

VBA

YOU FINISH WITH

Build an interactive Excel dashboard from a raw export

07

Cloud bonus, Generative AI, capstone and corporate grooming

□ Month 6

TOPICS

- ✓ Introduction to cloud services (AWS / Azure)
- ✓ Generative AI for analysts — ChatGPT and LLMs to accelerate SQL, DAX and reporting
- ✓ End-to-end capstone project
- ✓ Resume and LinkedIn rebuild, GitHub portfolio
- ✓ Three live mock interviews and aptitude practice
- ✓ Salary negotiation

TOOLS

AWS / Azure

Generative AI

GitHub

LinkedIn

YOU FINISH WITH

A defended end-to-end capstone with written feedback

PORTFOLIO

The projects you leave with

Documented, reviewed and defended out loud — the part of the syllabus that gets you interviews.

Retail sales performance dashboard

Clean a messy multi-region sales export, model it, and build a Power BI dashboard a regional manager could actually run a meeting from.

TOOLS Power Query, Power BI, DAX**DATASET** Synthetic retail transactions, 40k rows

Customer churn exploration

Work out which customers leave and why, using SQL to segment and Python to visualise. Ends in a written recommendation, not just a chart.

TOOLS MySQL, Python, pandas**DATASET** Telecom churn, public

Statistical analysis report

Read a dataset properly — sample, significance, and the honest answer when the result is inconclusive.

TOOLS Python, Excel**DATASET** Public survey data

End-to-end capstone

Take one problem from raw data through SQL, Python, statistics and a Power BI dashboard, documented and defended.

TOOLS MySQL, Python, Power BI**DATASET** Your choice, guided

WHERE IT LEADS

Roles & indicative salaries

ROLE	ENTRY (PER YEAR)	MID-LEVEL (PER YEAR)
Data Analyst	₹3.0L – ₹4.5L	₹6L – ₹9L
Business Analyst	₹3.5L – ₹5L	₹7L – ₹11L
Reporting Analyst	₹2.8L – ₹4L	₹5L – ₹8L
Power BI Developer	₹3.5L – ₹5L	₹7L – ₹12L

Compare this syllabus against anyone in Nagpur.

Classroom, online & weekend batches · individual project reviews · placement preparation included.

+91 87660 69947 · admin@techtoniccorporate.com · techtoniccorporate.com

Book a free consultation

