



ForumDE

Code your career

DATA ANALYST Syllabus

Kickstart your career in data analytics with hands-on projects, mentorship, and real-world skills.

This course includes everything you need to become a job-ready Data Analytics. From mastering SQL, Python, and data modeling, to working with big data tools like Hadoop and Spark – you'll learn how to build robust data pipelines, design ETL workflows, and manage databases. You'll also gain hands-on experience with cloud platforms such as AWS and Azure, and work on real-world projects that prepare you to handle large-scale data systems used in the industry.

1. Python Programming Fundamentals

Master the building blocks of Python including data types, loops, and conditional statements — the foundation of any data analysis workflow.

2. Data Analysis & Visualization Tools

Get hands-on with industry-standard libraries like Pandas, NumPy, Matplotlib, and Seaborn to clean, analyze, and visualize data like a pro.

3. SQL & Database Design

Learn how to query databases efficiently and understand normalization techniques to structure data for optimal performance.

4. Statistics & Probability for Data Insights

Build a strong analytical mindset by understanding key statistical concepts and probability distributions used in real-world decision-making.

5. Web Scraping & Real-World Data Handling

Discover how to collect live data from websites and handle messy datasets to extract meaningful insights.

Module :- 1 Python Programming Fundamentals

- Lecture 1: Course Overview & Python Basics
- Variables, Data Types & Operators
- Control Flow: Loops & Conditionals
- Functions & Modules
- Working with Files & Data Input/Output

Module :- 2 Data Analysis & Visualization Tools

- NumPy: Arrays, Indexing & Broadcasting
- Pandas: Series, DataFrames & Cleaning Data
- Matplotlib: Plotting Line, Bar, and Pie Charts
- Seaborn: Advanced Visualizations
- Exploratory Data Analysis (EDA)

Module :- 3 SQL & Database Design

- Introduction to Databases & SQL Syntax
- SELECT, WHERE, GROUP BY & ORDER BY
- Joins & Subqueries
- Database Normalization & Schema Design
- Using SQL with Python

Module :- 4 Statistics & Probability for Data Insights

- Descriptive Statistics (Mean, Median, Mode)
- Probability Distributions & Sampling
- Hypothesis Testing
- Correlation & Regression
- Real-World Statistical Applications

Module :- 5 Web Scraping & Real-World Data Handling

- Introduction to Web Scraping & APIs
- BeautifulSoup for HTML Parsing
- Requests & Handling API Responses
- Cleaning and Structuring Raw Data
- Mini Project: Live Data Extraction

Module :- 6 Capstone Project & Interview Preparation

- Capstone Project: Full Data Analysis Workflow
- Building a Data Portfolio
- Resume & LinkedIn Optimization
- Mock Interview Practice

DURATION OF COURSE	87.6 hours of content
FEES OF THE COURSE	₹24,999/- Only
EXERCISES	126 practice exercises

Apart from above course details, we will also deliver below: -

- *We will guide you what kind of questions can be asked in interview.*
- *We will help you in building your resume.*
- *We will take mock interview to prepare you for real time interview.*
- *Upon completion of the course, learners will be issued a formal certificate recognizing their achievement.*
- *The total duration of the course is 87.6 Hours.*
- *All sessions will be conducted through live online classes.*
- *Gain valuable insights from an industry veteran with more than ten years of hands-on experience.*

Sharing of videos to another person is strictly prohibited.

Contact us For Admission or Queries: -

