

Curriculum For Data Analytics

- 1o1 Interaction with Mentors
- No Experienced Required
- Hands-On Experience
- Job Ready Programs

Get A Free
Demo Class

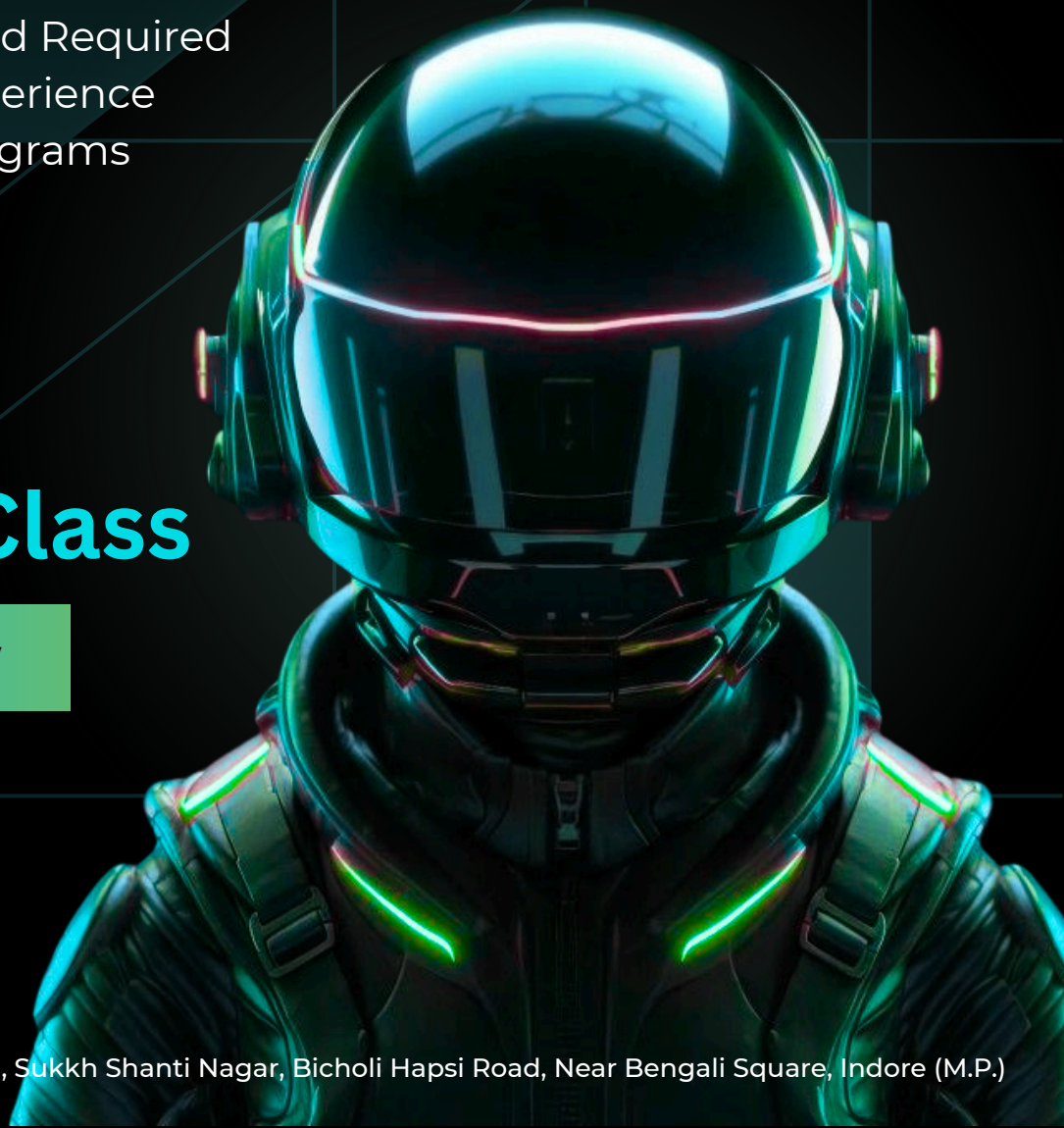
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STACK UP WITH SKILLS THAT MATTER

Build job-ready expertise in the tools employers
demand the most.

Data Analytics Fundamentals

- Understanding What Data Analytics Is!
- Types of Data Analytics
- Role of Data Analyst in Modern Orgs
- Overview of Analytics Tools & Technologies

Python Programming Basics

- Python Syntax, Data Types, Loops, Functions
- Working with Lists, Dictionaries, Tuples
- File I/O and Basic Scripting
- Writing Clean, Readable Code

Data Manipulation in Python

- Reading and Writing CSV/Excel Files
- Filtering, Merging, Grouping, Aggregation
- Handling Missing Values and Outliers
- NumPy for Array Ops & Performance

Data Cleaning & Handling

- Identifying Missing or Inconsistent Data
- Techniques to Handle Missing Data
- Removing Duplicates & Outliers
- Type Conversion & Formatting
- Best Practices in Excel & Pandas

ETL Process

- Extracting Data from APIs, Databases, Excel
- Normalization, Aggregation, etc
- Automating ETL Using Python & Power Query
- Data Integration from Multiple Sources

Statistics & Probability for DA

- Descriptive vs Inferential Statistics
- Probability & Distributions (Normal, Binomial)
- Hypothesis Testing (T-test, Z-test, ANOVA)
- Correlation & Regression

DBM & SQL Querying

- Introduction to RDBMS & SQL
- Data Types, Tables, Primary/Foreign Keys
- Data Filtering, Sorting, and Aggregation
- SQL Joins, Constraints & Modeling
- Data Modeling Basics
- Hands-On Queries on Real-World Datasets

Data Visualization Techniques

- Principles of Effective Data Visualization
- Charts: Bar, Line, Pie, Area, Histogram, Box, Heatmaps
- Selecting the Right Chart for the Right Metric
- Using Power BI & Matplotlib for Dashboarding

Data Storytelling

- What is Data Storytelling & Why It Matters
- Turning Numbers into Narratives
- Building Visual Dashboards that Drive Decisions
- Framing Business Problems Using Data
- Finalizing a Presentation for Non-Technical Stakeholders

Data Visualization in Python

- Plotting with Matplotlib: Bar, Line, Area, Pie
- Advanced Visuals with Matplotlib
- Customizing Plots: Themes, Colors, Annotations
- Telling Stories Through Charts

Business Intelligence Reporting

- Introduction to BI Tools (Power BI)
- Connecting Data Sources & Preparing Reports
- Creating Interactive Dashboards with Filters
- Defining and Tracking KPIs
- Publishing and Sharing BI Reports

INVITATION Unlock Your Potential

Every skill. Every stack. All under one roof—only at
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Step into a transformative journey of 4 to 6 months, where your passion for tech meets structured learning, hands-on execution, and expert mentorship. Whether you're a beginner aiming to break into IT or a professional looking to upskill, our programs are crafted to build deep expertise, not just check boxes.

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- **Web Development (MERN / NEXT): 6 Months**
- **Data Science: 6 Months**
- **Data Analytics: 4 Months**



At D'Code Gurukul, ambition matters more than background. Whether you're a fresher, career-switcher, or tech enthusiast, you're welcome here.

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