

# Certificate Program in Data Engineering

6-month in-class program

Kolkata & Bengaluru



## Program Highlights



**200+**  
contact hours



**Expert faculty  
pool of  
academicians  
and industry  
practitioners**



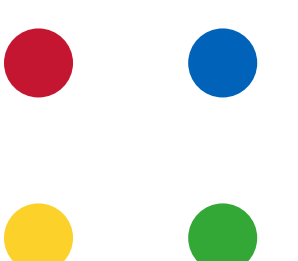
**Career  
Support**



**Membership  
to the Praxis  
Global Alumni  
Network**

## Program Objective

- ▶ Equip students with comprehensive knowledge and practical skills in data engineering
- ▶ Build proficiency in data manipulation, database management, and development of data pipelines
- ▶ Foster an understanding of data quality, governance, and big data principles
- ▶ Emphasize collaboration, communication, and project-based learning
- ▶ Provide hands-on experience through capstone projects
- ▶ Prepare students for industry certifications and career opportunities
- ▶ Offer support for placement and career advancement



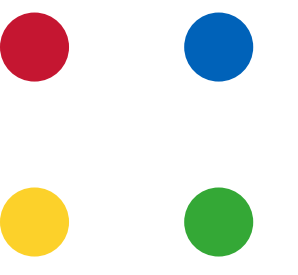
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[www.praxistech.school](http://www.praxistech.school)



[admissions@praxis.ac.in](mailto:admissions@praxis.ac.in)



## Learning Outcomes

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On successful completion of the course, students will learn how to:

- ▶ Re-engineer Enterprise Data Architecture
- ▶ Utilize relational and NoSQL data models
- ▶ Construct scalable data warehouses
- ▶ Handle massive datasets effectively
- ▶ Implement Cloud-based Data Warehouses
- ▶ Apply Big Data technologies to solve use cases

## Roles and Profiles in Data Engineering

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### Data Engineer

Builds data systems, skilled in SQL, Hive, Spark.



### Database Administrator

Manages databases, and ensures system operation.



### Enterprise Data Architect

Designs data frameworks, proficient in Python, Java, and Hadoop.



### ETL Engineer

Maintains data integrity, and ensures smooth transfer.



# Program Coverage



## Three 2-month trimesters

Trimester 1 - Working with Traditional Data	Trimester 2 - Managing Data Platforms & Cloud	Trimester 3 - Enterprise Business Applications
Data Fluency	Python Programming	Spark Data Analytics
Data Modeling	RDBMS	NoSQL
Business Intelligence	Data Warehousing	Big Data
Data Exploration and Analysis	Cloud Data Management	Capstone Project
Structured Query Language (SQL)		

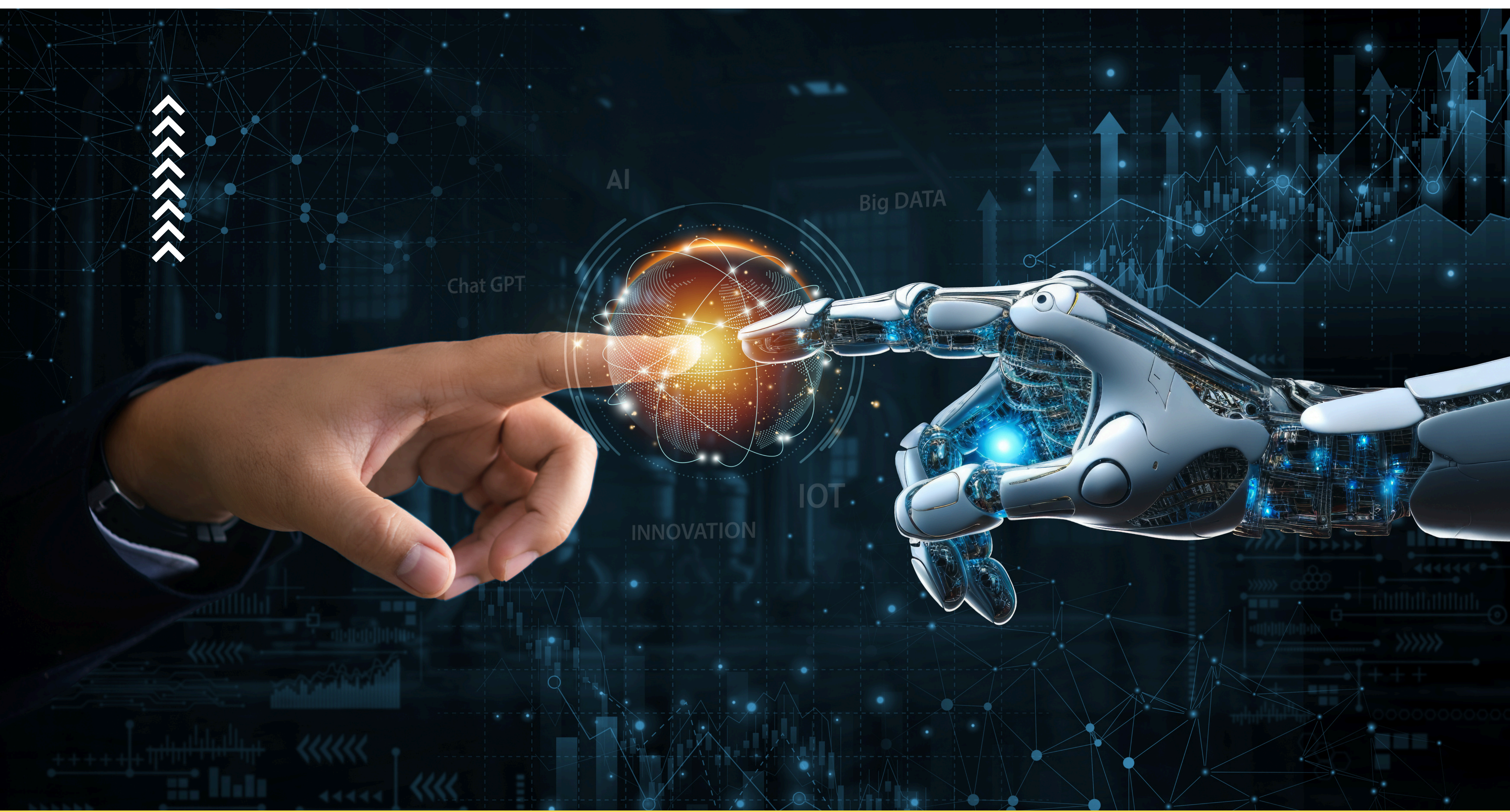


### Pedagogy

Blend of lectures, case discussions, labs, assessment via tests, assignments, projects.

### Capstone Project

Culminating academic experience applying classroom learning to real-world business challenges.





## Fees

**Total Program Fee: Rs. 99,000 (Incl. 18% GST)**

## Eligibility

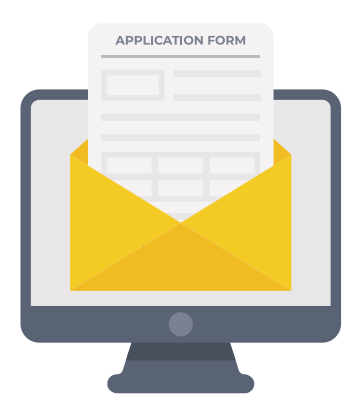
- ▶ B.Tech, BCA/MCA or B. Sc/M.Sc. Computer Science/IT
- ▶ Minimum 55% in 10th, 12th and Graduation

## Who is this program meant for?

This course is aimed at facilitating a smooth transition of the participants into the domain of data engineering. It is meant for candidates satisfying any of the following criteria:

- ▶ Individuals with a technology background, proficient in programming.
- ▶ Fresh engineering or computer science graduates interested in big data.
- ▶ Professionals in traditional tech fields seeking to transition to newer, high-demand domains.

## Selection Process



**Step 1**  
Apply Online @[www.praxistech.school](http://www.praxistech.school)



**Step 2**  
Evaluation of Profile and Scores



**Step 3** Personal Interview (online)