



nasscom Certified

# Data Science & Machine Learning with GenAI

Build Models. Ship Decisions. Scale With  
GenAI.

Powered by **IBM**

India's Most Future-Ready Data Science Course with GenAI

280+ hours of Live Virtual Training

40+ Hours of IBM-Designed Courses with Masterclasses & Guided GenAI Labs

8 Industry Projects + Capstone on AI /ML Applications

200+ Course Skilling Library Access

Multiple Certifications from IBM, Career247, and NASSCOM

100% Career Assistance

Latest GenAI Tools

NASSCOM endorsed course

Career Assistance



2000+  
Students Secured Job With Us





NAAC A+, UGC Entitled



# India's AI & Data Science *Landscape is Exploding*

India's Data Science and AI industry is expected to surpass \$22 billion by 2026, with GenAI adoption transforming roles across sectors – from finance and healthcare to e-commerce and logistics.

This growth is also creating strong career opportunities in Tier 2/3 cities, making it a high-demand and future-ready field.

 <p>India's <b>Data Analytics Market</b> to hit <b>US \$21B</b> by 2030</p> <p><small>Grand View Research India Data Analytics Outlook 2024-2030</small></p>	 <p><b>36% Increase</b> in Data Science Jobs by 2031</p> <p><small>U.S. Bureau of Labor Statistics</small></p>	 <p><b>45% YoY Growth</b> in demand for AI-augmented data professionals</p> <p><small>Govt. of India /MeitY report</small></p>	 <p><b>61% YoT rise</b> in GenAI-related roles across roles like ML Engineer, Data Scientists, and Prompt Engineer</p> <p><small>People Matters India Report 2025</small></p>
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**Job Openings: 1.1 million new job openings expected in Data Science & AI by 2026**  
Government/MeitY report

## Data Scientist Skills

- |   |                        |
|---|------------------------|
| 1. Teamwork   | 7. Communication       |
| 2. Advanced Statistics                              | 8. Business Savvy      |
| 3. High-Level Math                                  | 9. Microsoft Excel     |
| 4. Social Media Mining                              | 10. Data Visualization |
| 5. SQL  | 11. Python             |
| 6. Natural Language Processing/<br>Machine Learning |                        |

## Employment *Landscape*

### Salaries

Average Indicative Salaries ₹14.4 LPA

Depending on candidature



Source: Glassdoor India, 2025

#### Location Premium:

Salaries in metro cities (like Bangalore or Mumbai) can be 15-30% higher.

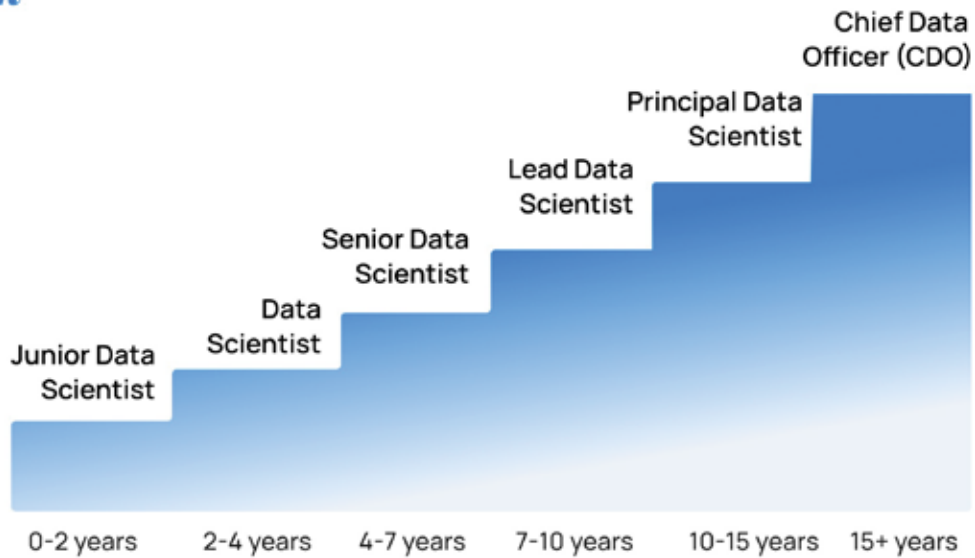
#### Specialization Premium:

Professionals with expertise in **Generative AI (GenAI) and Large Language Models (LLMs)** can command salaries 20-40% higher, especially in R&D, product development, and consulting roles.

#### Startup Compensation:

Emerging startups may offer equity or performance-linked bonuses in addition to base salaries.

## Career Path



## Job Roles in *Data Science*

### Core Data Science & ML Roles

- Data Scientist
- Data Analyst Intern
- AI/ML Research Engineer
- Data Analyst / Business Analyst
- Data Engineer - Trainee
- Data Science Associate / Analyst

### GenAI-Focused & Emerging Roles

- Generative AI Specialist / Engineer
- Prompt Engineer
- NLP Engineer / LLM Developer
- Computer Vision Engineer
- Deep Learning Specialist
- AI Workflow Integration Analyst

## Top 10 Hiring Companies in India



## About the *Program*

### NASSCOM Certified Course

This 280-hour, 7-month IBM-endorsed and NASSCOM-certified course in Data Science and Machine Learning with GenAI empowers learners with future-ready skills in Python, SQL, Statistics, ML algorithms, NLP, and Computer Vision – with a dedicated GenAI track for real-world application.

Designed and delivered in collaboration with PwC Academy for future-ready data scientists, you will benefit from expert mentorship, real-time industry projects, industry masterclasses and placement assistance, equipping learners to excel in a rapidly evolving, AI-powered data landscape.



**Design and Evaluate ML Models:**  
 Apply supervised and unsupervised learning algorithms using Python, scikit-learn, and TensorFlow to solve real-world classification, regression, and clustering problems.



**Perform Advanced Data Analysis:**  
 Clean, analyze, and visualize structured and unstructured datasets using Pandas, NumPy, Matplotlib, and Seaborn to derive business insights.



**Build Intelligent AI Systems:**  
 Apply neural network architectures for tasks such as image understanding, text analytics, and pattern recognition, with an emphasis on real-world implementation, and model evaluation.



**Leverage Generative AI in Analytics Workflows:**  
 Use Generative AI tools and LLMs to enhance analytics workflows, including prompt design, insight generation, automation support, and productivity enhancement across data science tasks.



**Become Job-Ready with Industry Projects:**  
 Develop a strong project portfolio with 8 mini-projects and a capstone project in NLP, computer vision, and GenAI to showcase hands-on expertise to employers.

**280 Hours**

Of Live Training

**8**

Mini Projects

**1**

Capstone Project

**15+**

Case Studies

Powered by **IBM** **40 Hours of Program Delivery by IBM Academy Experts**

## Key *Highlights*

### DESIGNED TO BE INDUSTRY-READY

In Collaboration with IBM

- Program designed and delivered in collaboration with IBM experts
- Access to 40 Hours of IBM designed courses
- 12 IBM Masterclasses by industry experts
- Access to IBM's Guided Labs & GenAI tools
- Hackathons & innovation challenges
- Quarterly Campus Immersions at IBM for top performers

### Data Science with GenAI – Built for the AI-First World

- Master Python, SQL, statistics, ML, DL, NLP
- Integrate GenAI tools like GPT, Copilot, and AutoML into your workflow
- Learn how to build intelligent, AI-enhanced systems – end to end

### 8 Real-Time Projects + Capstone for Career-Ready Skills

- Work on real-world projects across regression, classification, NLP
- Solve problems using GenAI-enhanced pipelines and tools
- Complete a capstone project to showcase your industry readiness

### 1:1 Industry Mentorship

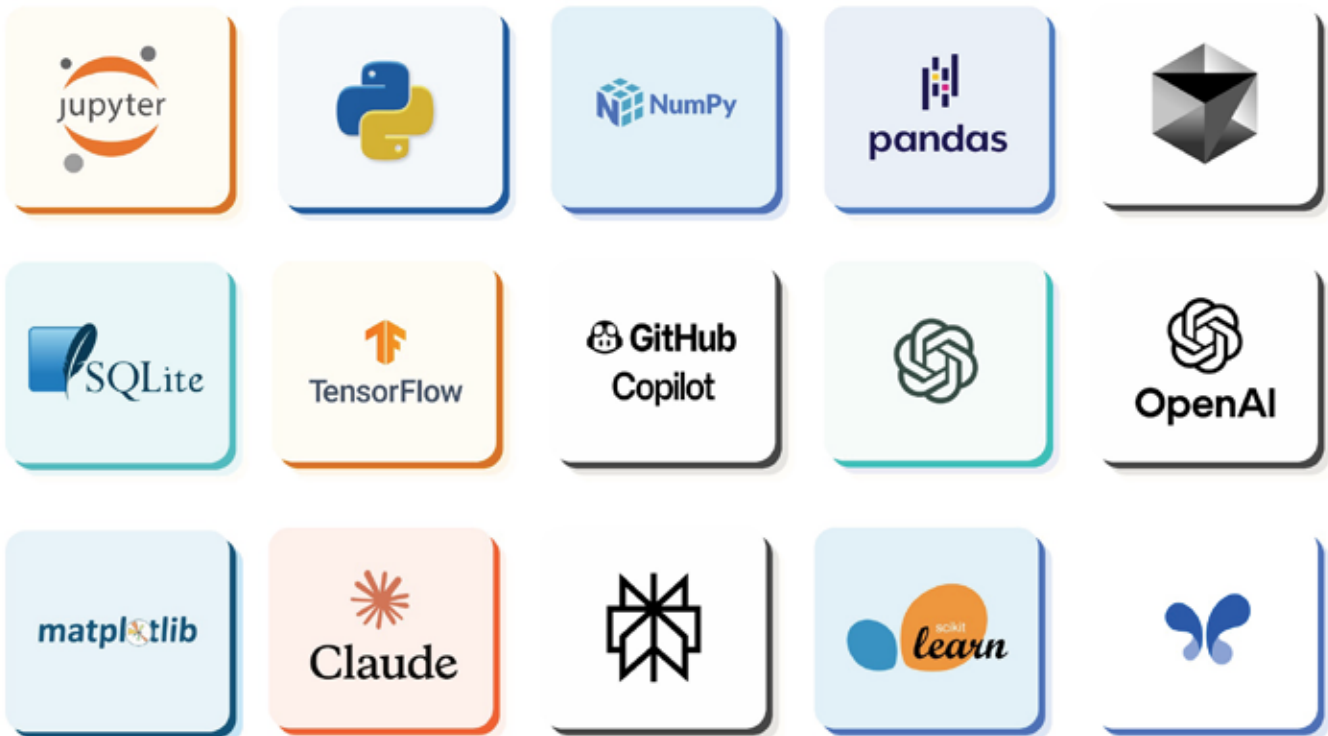
- Get matched with senior AI/data professionals from top companies
- Receive personalized project feedback and career guidance
- Build clarity and confidence to transition into data science roles



### 24/7 Learning Access on the Go

- Anytime access to recordings, toolkits, and assignments
- Practice with GenAI labs, coding challenges & self-paced content
- Stay connected with mentors, peers, and your learning community

## Industry-Leading Tools *You Will Master*



# Industry-*Readiness*

In Collaboration with IBM

The program is co-developed with IBM leaders and combines IBM's world-class curriculum, guided labs, and certification with along Career247's academic expertise to ensure you are Industry-Ready from Day 1.

Learners will benefit from:



Joint IBM-Career247 Certification



40+ Hours of carefully curated IBM Courses to further your knowledge

NoSQL Databases [18 hrs]

PyTorch Fundamentals for Machine Learning [17 hrs]

Generative AI for Data Scientists [11 hrs]



## Industry First *Curriculum*

### Module 1

41 Hours

## (Python Programming for Data science)

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Python syntax, data types, and control structures</li> <li>2. Functions, file handling, exception handling, and reusable code practices</li> <li>3. NumPy for numerical operations</li> <li>4. Pandas for data manipulation and analysis</li> </ol> | <ol style="list-style-type: none"> <li>5. Data visualization using Matplotlib</li> <li>6. Writing reusable and structured Python code</li> </ol> <p><b>Mini-project:</b> Exploratory data analysis on a real dataset</p> |
|---|--|

### Module 2

12.5 Hours

## (SQL for Data Science)

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Fundamentals of relational databases and SQL querying</li> <li>2. Creating, updating, and querying tables</li> <li>3. Filtering, joins, subqueries, and aggregations</li> <li>4. Data cleaning and transformation using SQL</li> <li>5. Analytical SQL concepts including window functions</li> </ol> | <ol style="list-style-type: none"> <li>6. Integrating SQL with Python for data analysis workflows</li> <li>7. Applying data cleaning, transformation, and analytical SQL techniques (including window functions) for real-world analysis and reporting.</li> <li>8. <b>Mini-project:</b> Apply SQL to analyze a retail store database and derive insights related to sales, customers, and transactions.</li> </ol> |
|---|---|

### Module 3

23 Hours

## (Statistics & Probability)

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Descriptive statistics to summarize data (mean, median, mode, variance)</li> <li>2. Probability concepts and commonly used distributions (normal, binomial, Poisson)</li> <li>3. Sampling concepts and the Central Limit Theorem</li> <li>4. Correlation and covariance for understanding relationships between variables</li> </ol> | <ol style="list-style-type: none"> <li>5. Introduction to hypothesis testing</li> <li>6. (null and alternative hypotheses, p-values, confidence intervals)</li> <li>7. Applying statistics using Python for analysis and visualization</li> <li>8. <b>Mini-project:</b> Customer Insights Statistical Investigation</li> </ol> |
|--|--|

## Industry First *Curriculum*

### Module 4

46.5 Hours

## (Supervised Learning)

1. Linear & Logistic Regression
2. Decision Trees and Random Forests
3. KNN and Hyperparameter Tuning
4. Model Performance Metrics
5. Cross-Validation and Model Evaluation
6. **Mini-Projects:** Property price prediction
7. Case Studies:
  - Model evaluation and selection using cross-validation
  - End-to-end supervised learning project and insights

### Module 5

17 Hours

## (Unsupervised Learning)

1. Clustering: K-means, Hierarchical
2. Dimensionality reduction: PCA
3. Anomaly detection
4. Business segmentation use cases
5. Mini-project: Customer segmentation using K-means

### Module 6

19.5 Hours

## (Neural Networks and Deep Learning)

1. Neural networks: perceptron to MLP
2. Activation functions, loss functions
3. Backpropagation and gradient descent
4. Hands-on with TensorFlow/Keras
5. Introduction to Image Data & Convolutions
6. CNN for image Classification
7. Mini-project: Cats vs Dogs classifier

### Module 7

23 Hours

## (Natural Language Processing & LLMs)

1. Text preprocessing and vectorization
2. Word embeddings (Word2Vec, GloVe)
3. RNNs and LSTMs for sequence data
4. Transformer architecture overview
5. Hands-on with BERT/GPT for sentiment analysis
6. Mini-project: IMDB Reviews classifier

## Industry First *Curriculum*

### Module 8

42 Hours

## (Generative AI & Prompt Engineering)

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1. GenAI for Code Enhancement     | 5. GenAI for Classification        |
| 2. GenAI for SQL Enhancement      | 6. GenAI for Unsupervised Learning |
| 3. GenAI for Statistical Analysis | 7. GenAI for NLP Applications      |
| 4. GenAI for Model Building       |                                    |

### Module 9

## (Capstone Project)

Powered by 

1. Inventory Optimization for an E-Commerce Warehouse through Demand Forecast
2. Fraud Detection in Online Transactions
3. Churn Prediction and Retention Strategy for a Telecom Provider
4. Resume Screening and Role Matching Using NLP

### Module 10

30 Hours

## (Job Readiness Preparation)

- |   |  |
|---|--|
| 1. Workplace Communication + English Confidence       | 6. Placement Prep — Resume & Personal Branding             |
| 2. Written Communication + Online Presence            | 7. Soft Skill Session Mock Interviews & Final Presentation |
| 3. Data Storytelling + LR + Stakeholder Knowledge     | 8. Mock Interviews & Final Presentation                    |
| 4. Teamwork, Collaboration & Professional Behavior    | 9. LinkedIn Profile Optimization                           |
| 5. Time Management, Work Ethics & Data Responsibility | 10. Resume Building & Job Search Intelligence              |

# Learn The Very Latest In *Data Science with GenAI*

## 42+ Hours of Dedicated GenAI Training for Data Scientists

### GenAI for Code Enhancement

(e.g., GitHub Copilot, code generation, documentation, debugging assistance)

### GenAI for SQL Enhancement

(Natural language to SQL, query optimization, AI data exploration)

### GenAI for Statistical Analysis

(AI-driven statistical reporting, hypothesis generation, storytelling)

### GenAI for Model Building

(Automated feature engineering, model design, interpretation)

### GenAI for Classification

(Model selection, bias detection, performance optimization)

### GenAI for Ensemble Methods

(Automated ensemble creation, pruning, hyperparameter tuning)

### GenAI for Unsupervised Learning

(Clustering, anomaly detection, pattern discovery)

### GenAI for Computer Vision

(Image generation, object detection, visual quality assessment)

### GenAI for Deep Learning

(Architecture optimization, transfer learning, model debugging)

### GenAI for NLP Applications

(Prompt engineering, LLM fine-tuning, content workflows)

# Hands-On Projects

8 Mini Projects Across Multiple Domains for Real World Expertise



Exploratory Data Analysis on Insurance Data



Property Price Prediction



Customer Churn Prediction



Credit Risk Prediction



Customer Segmentation



Handwritten Digit Recognition



IMDB Review Classifier



Face Recognition Using OpenCV

# Capstone Projects

## *Apply Everything You've Learned*



Inventory Optimization for an E-Commerce Warehouse through Demand Forecast



Fraud Detection in Online Transactions



Churn Prediction and Retention Strategy for a Telecom Provider



Resume Screening and Role Matching Using NLP

Mode of Learning:

Live Instructor Led  
Virtual Sessions

Duration:

7 months

Class Schedule:

Sat, Sun: 7:30 PM - 10:30PM  
Wed: 7:00 PM - 10:00 PM

Classes Conducted on:

Zoom

# F.O.C.U.S Coding Sprints

A high-impact coding program designed to sharpen your technical skills and simulate real IT sprint experiences — in just a few hours a week!



## Fasttrack

Accelerate your learning journey with focused, weekly live sessions.



## Optimize

Learn how to write clean, efficient, and scalable code.



## Code

Apply concepts in real-time through live coding labs with faculty.



## Upskill

Build job-ready capabilities through project work and practice.



## Sprint

Simulate real IT sprints and solve business-style challenges.



### Weekly Coding Challenge

25 Hours  
 100% Practical  
 0% Theory



### Coding Labs

Practice with faculty  
 in live session



### Sprint simulation

Experience real world  
 project scene scenarios

## Why Join Us?

- Build confidence through hands-on practice
- Strengthen problem-solving and teamwork
- Boost your profile for tech placements and internships
- Exciting Scholarships for the Top 3 performers

# Experiential *Learning*

The program is delivered through an **innovative experiential learning methodology** with live lectures by **senior industry experts** for theoretical understanding followed by a heavy focus on practical learning through **real world case studies, projects and discussions.**

## Learning By Doing – Learner Journey



## Why Sign Up?

### *Key Benefits Of The Program*

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#### **First of its Kind Data Science Program with GenAI**

42 Hours of GenAI tools training for data science success, among the first courses in India to offer GenAI for data science



#### **Access to our Skilling Library**

Complementary access 200+ courses on tech and data from our skilling video library



#### **Multiple Certification**

Earn a dual Career247 and IBM completion certificate, along with a NASSCOM certification to boost your career prospects.



#### **Case Studies and Project Based Learning**

Capstone Projects, 8 Real-time projects and assessments to hone your skills







#### **Mock Interviews & Career Mentorship**

Personalized resume-building, interview practice & feedback

# Career Assistance

The Career Assistance team at Career247 provides **100% Career assistance** to ensure **successful careers**.

## Getting You Job Ready

 <p><b>Resume Building</b></p>	 <p><b>Interview Prep</b></p>	 <p><b>Mock Interviews</b></p>	 <p><b>Company Test Prep Library</b></p>
<p>Refining and polishing the candidate's resume with insider tips to help them land their dream job</p>	<p>Preparing candidates to ace HR and Technical interview rounds with model interview questions and answers</p>	<p>Preparing candidates to face interview scenarios through 1:1 and panel mock interviews with industry veterans</p>	<p>Access to library of company-specific assessments wherever applicable</p>

## Hiring Landscape: Top Employers are Looking for You!

### 1. Product-Based Companies



### 2. Service-Based Companies



### 3. AI-First & Analytics Companies



# Industry Experts as *Faculty*

Our faculty are **senior industry experts with at least 10 years of experience**, and are passionate about teaching and creating the **next generation of Data Scientists**.



**Suraj Tiwari**

AI Engineer

- 5+ years of experience in AI, Machine Learning, Data Science, GenAI, and Big Data
- Trained hundreds of learners across India and the US through top-rated training batches
- Known for structured, real-world, hands-on teaching with strong industry relevance



**Arindam**

Data Science and AI professional

- 13+ years of experience in Data Science, Machine Learning, GenAI, and Agentic AI
- Mentored 1,500+ learners over 8+ years in EdTech
- Recognized for simplified, practical, industry-ready teaching



**Dipayan Sarkar**

Data Science and AI Consultant

- 23+ years in AI, data science, and enterprise
- Ex Apple, Maersk Group, Hexaware
- Trained teams at Deloitte, Credit Suisse, and government bodies
- Faculty at leading edtechs and universities across India



**Suyash Khare**

Senior Machine Learning Engineer & NLP Specialist

- 7+ years in ML, DL & NLP building production AI systems.
- Mentored 5,000+ learners at upGrad for 6+ years.
- Worked at Avalara, PeopleGrove, Compile Inc., Nineleaps & CoStrategix.
- Expertise in NLP, recommender systems & AI personalization.



**Abhisheak Saraswat**

Data Scientist

- 8+ years of experience in machine learning, deep learning, generative AI, and RAG/LLM engineering with end-to-end model development and deployment expertise
- Skilled in Python, statistics, NLP, and tools like LangChain, Llamaindex, Ollama and CrewAI.
- Working as a Senior Data Scientist (Gen AI) – IBM



**Shivam Garg**

Trainer

- 7+ years of experience across Data Science, Analytics, AI/ML, with strong domain expertise in Telecom and Fintech
- Trained 1,00,000+ students through 15,000+ live sessions in Data Science, Analytics, and advanced AI/ML
- Companies worked at are DMI Finance (Principal Data Scientist), previously Airtel X Labs and Accenture Research Labs
- Universities trained at are IIIT Bangalore, IIT Patna, Lovely Professional University (LJMU) as Visiting Faculty



**Simran Anand**

Senior Software Engineer – Machine Learning, Bosch

- 5+ years of hands-on experience in Data Science, Machine Learning & Generative AI.
- Trained and mentored 6,000+ learners across global platforms and institutions.
- Expert in NLP, LLMs, MLOps, and cloud-based AI systems.
- Published patents and research in Computer Vision & Deep Learning.
- Known for simplifying complex AI concepts into industry-ready skills.

## Multiple *Certifications*

On successful completion of the program, you will receive certifications from IBM, Career 247, and NASSCOM, enhancing your credibility and employability.



# Who is this *Program for?*



## Recent Graduates And Postgraduates

Aspiring analysts and data enthusiasts graduating from B.Tech, M.Tech, B.Sc, M.Sc, BCA, MCA, who have a basic coding knowledge



## IT & Engineering Professionals

Developers and engineers looking to transition into data science roles or enhance their technical skill sets.



## Experienced Data Professionals

Experienced Data Analysts and Junior Data Scientists looking for to upgrade their careers with new skills

Free

## Get access to 200+ skilling courses

Expert-taught Courses like:

- Python
- Data Science
- DSA all languages
- Competitive Coding
- Interview Prep
- NLP and Deep Learning
- Pandas
- C, C++
- AI/ML
- GitHub
- Aptitude, etc.



DATA SCIENCE

Data Science



COMPETITIVE CODING

Competitive Coding



DATA STRUCTURES in C

Data Structures in C



TCS

Company Preparation



Python

Python Language



LOGICAL REASONING

Data Structures in C

## Trusted by students **all over India**

Explore industry relevant & career focused online degrees from leading universities

**1350+**

Students Placed

**10 LPA**

Average CTC

**20 LPA**

Highest CTC Job Offer



## Our Alumni Work At *These Companies*



<p><b>Mode of Learning:</b> Live Instructor Led Virtual Sessions</p>	<p><b>Duration:</b> 7 months</p>	<p><b>Class Schedule:</b> Sat, Sun: 7:30 PM - 10:30PM Wed: 7:00 PM - 10:00 PM</p>	<p><b>Classes Conducted on:</b> Zoom</p>
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Program Fee : ₹65,000/-

### Scholarships

For Deserving Candidates Available



### Financial support

No COST EMI's available