



iHUB DivyaSampark



# ELITE PROGRAM IN AI & DATA SCIENCE FROM IHUB, IIT ROORKEE

**Unlock the Power of Elite Engineering Life and Excel Like a Pro!!**

Upskill with top-notch AI & Data Science expertise from iHUB, IIT Roorkee, and excel like an IITian with 10x career opportunities.



10 Million+  
Learners



1:1 Personalized  
Mentorship



30 LPA CTC  
Highest Fresher Salary

# Elite Program in AI & Data Science from iHub, IIT Roorkee

Introducing our specialized program designed for students and professionals in AI, Data Science, and related fields. This course is ideal for learners who have completed 12th grade or are currently in college, as well as those from non-technical backgrounds looking to transition into AI & Data Science. Experience IIT-level learning, with a curriculum meticulously crafted to help you upskill while pursuing both your degree and certification simultaneously. Upon completing the program, participants will receive prestigious certifications from iHUB, IIT Roorkee, giving your resume the edge needed to stand out in this competitive field.



iHUB DivyaSampark



## Hottest Job of 21st Century



### 1 million AI professional's demand

By 2026, it is estimated that there will be around 1 Million jobs openings in AI & Data Science in India.



### Skill Development

Key skills include Machine Learning, Deep Learning, Data Engineering, NLP, AI & Data Science Model Deployment.



### Growing AI & Data Science Industry

33% CAGR projected from 2023 to 2028, reflecting the rapid growth of the industry.



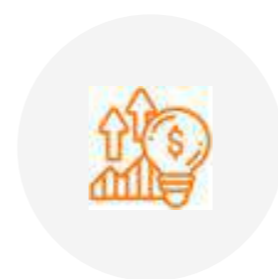
### Lucrative Salaries

The average salary for AI & Data Science professionals is around ₹12,00,000 per year in India.



### Popular Degree

Over 40% of AI and Data Science professionals hold advanced degrees like Master's or PhDs.



### High Demand

The job market for AI & Data Science professionals is expected to grow by 31% by 2030, making it one of the fastest-growing career fields.

## Our Credentials



**10 Million+**

Aspiring Active Students



**1,000+**

Industry-expert Instructors



**3100+**

Hiring Partners



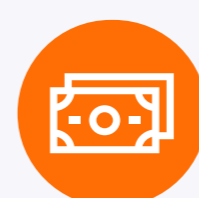
**700+**

Corporates Upskilled



**55%**

Average Salary Hike



**155+**

Countries' Learners

# About Program

This certification program offers a comprehensive curriculum designed to equip students and professionals with in-demand AI & Data Science skills. It is delivered by leading faculty from IIT and industry experts. The course ensures hands-on learning, using real-world applications and projects, and prepares learners for high-paying roles in AI & Data Science.



## Eligibility

Undergraduate Students & Diploma Holders



## Upskill

8 Hours a Week  
Alongside Your College



## 2 Days

Campus Immersion  
at iHUB IIT Roorkee



## Receive

Career Services  
by Intellipaat

## Key Highlights

- ✓ 1 Year of Live Sessions
- ✓ Learn from Industry Experts & IIT Faculty
- ✓ No Cost EMI Option
- ✓ Aptitude & Soft Skill Training
- ✓ Receive e-learning videos in vernacular languages like Tamil, Telugu, Hindi, English
- ✓ Intensive Curriculum to grasp Industry 5.0 skills
- ✓ Dedicated Career Mentors upon Course Completion
- ✓ Receive certification from iHub IIT Roorkee
- ✓ Designed for College Students to learn alongside your college.
- ✓ Upto Rs 20 Lakhs as Angel Fund to shortlisted ideas

## Unlock the Power of Elite Engineering Life

- ✓ Get your Official iHub, IIT Roorkee Student E-ID Card & Exclusive T-Shirt for an additional fee of ₹500
- ✓ 2 Days Campus immersion at iHUB, IIT Roorkee
- ✓ Subscription to iHub, IIT Roorkee Newsletters



## Excel Like a Pro

Achieve success with the drive and determination like Professional!

- ✓ Master Industry ready AI & Data Science skills
- ✓ Learn from IIT Faculty and Industry experts
- ✓ Participate in Hackathons & showcase your tech skills
- ✓ Master Classes from CXO of top MNCs and Innovative Startups
- ✓ Work on Industry oriented capstone projects
- ✓ Get 24\*7 Support from Subject Matter Experts (SME's)

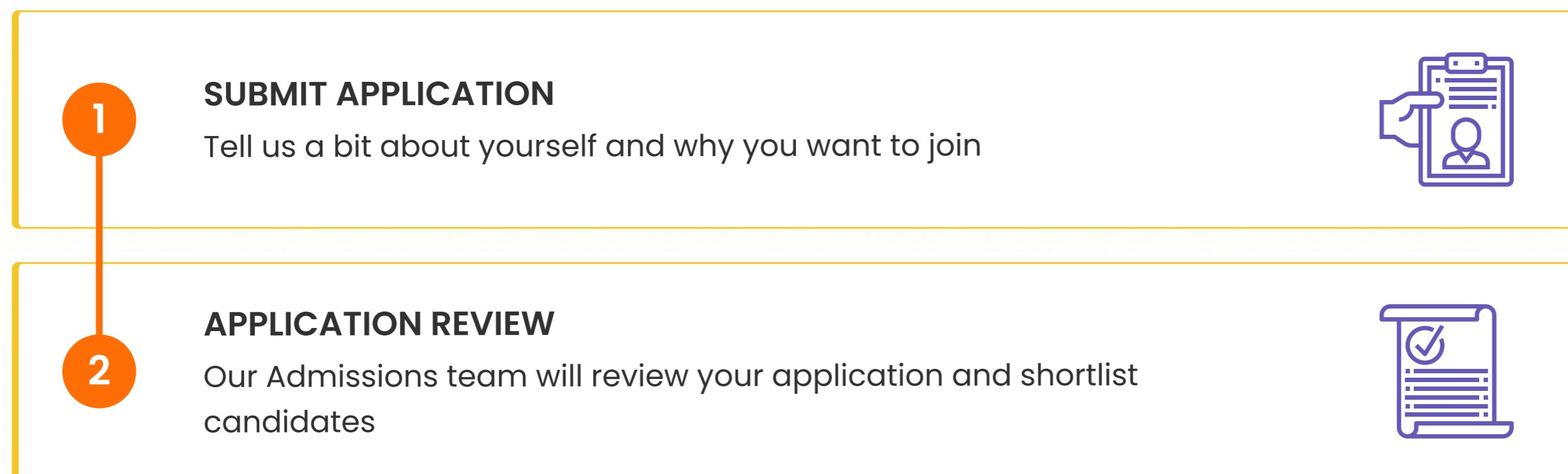


# Who Can **Apply for the Course?**


- ✓ Any Undergraduate College student looking to become an IT Professional in the field of Artificial Intelligence & Data Science.
- ✓ Learners who have completed 12th grade and are currently pursuing undergrad degree, or Diploma Holders with no graduation yet and currently pursuing degree, looking to transition into AI can take this course.


## Application **Process**


The application process consists of two simple steps. Candidates have to submit their application. Upon review of the candidature, shortlisted candidates will be informed.





## Program **Pedagogy**


 **Instructor-led Training**  
Get trained by industry experts from Top Product Companies & Startups


 **Dedicated Learning Management Team**  
To help you with your learning needs


 **Self-paced Videos**  
Learn at your own pace with world-class content

 **Projects and Exercises**  
Get real-world experience through projects

 **Hackathons**  
Get a sense of how real projects are built

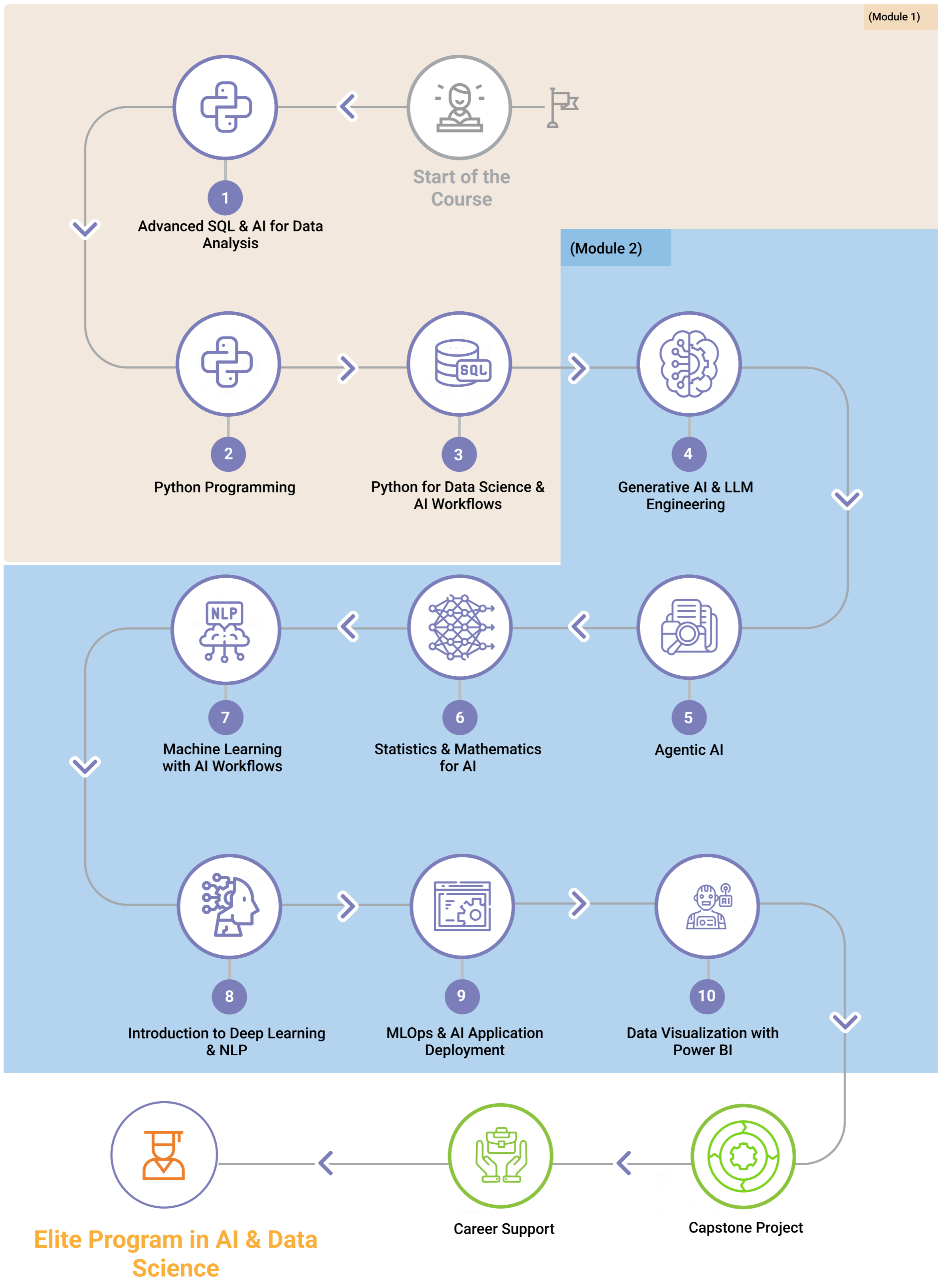
 **Peer Networking and Group Learning**  
Improve your professional network and learn from peers

 **Gamified Learning**  
Get involved in group activities to solve real-world problems

 **1:1 Personalized Learning**  
Hands-on exercises, project work, quizzes, and capstone projects

```
modifier_ob.select=1  
bpy.context.scene.objects.active = modifier_ob  
print("Selected" + str(modifier_ob)) # modifier ob is  
mirror_ob.select = 0  
# bpy.context.scene.objects.active = mirror_ob
```

## Live Courses





## Module 1

### Module 1

#### Advanced SQL & AI for Data Analysis

- SQL Fundamentals & Advanced Queries
- Joins, CTEs & Window Functions
- Data Transformation
- Data Warehousing Concepts
- Business Data Analysis
- Learn to use AI for SQL Queries Generation, Debugging & Data Analysis

### Module 2

#### Python Programming

- Python Core & Advanced
- Object-Oriented Programming
- APIs & Automation
- Data Structures in Python
- File Handling
- Learn how to use AI for writing Python Code, Debugging & build products faster

### Module 3

#### Python for Data Science & AI Workflows

- NumPy
- Pandas
- Data Cleaning & Transformation
- Feature Engineering
- AI Assisted Exploratory Data Analysis

## Module 2

### Module 4

#### Generative AI & LLM Engineering

- LLM Foundations
- Prompt Engineering
- LLM APIs & AI Application Development
- LangChain
- Embeddings & Vector Search
- Retrieval-Augmented Generation (RAG)
- Function Calling & AI Workflows

### Module 5

#### Agentic AI

- Agent Foundations
- Tool Usage & Function Calling
- Agent Memory Management
- Multi-Agent Systems

- Agent Development Frameworks
- Agent Evaluation & Optimization
- Agent Deployment
- Agentic AI Tools
- Real-World Agent Use Cases

### Module 6

#### Statistics & Mathematics for AI

- Probability & Distributions
- Hypothesis Testing
- Vectors & Matrices

### Module 7

#### Machine Learning with AI Workflows

- Supervised Learning
- Model Evaluation
- Unsupervised Learning
- Dimensionality Reduction
- Anomaly Detection
- Build End to End ML Model with AI Assisted featured Engineering
- Real-World ML Applications

### Module 8

#### Introduction to Deep Learning & NLP

- Convolutional Neural Networks
- Recurring Neural Networks
- Natural Language Processing using AI

### Module 9

#### MLOps & AI Application Deployment

- Model Deployment
- Model Lifecycle Management
- Docker Fundamentals
- Basic Kubernetes = Microservices Architecture
- API Serving
- Monitoring & Logging
- Production AI Systems

### Module 10

#### Data Visualization with Power BI

- Interactive Dashboards
- KPI Design & Reporting
- Business Storytelling
- Data Visualization Best Practices
- Executive Reporting



## Capstone Project

Immerse yourself in a dedicated Capstone Project in the comfort of your home with regular interaction and review with your allocated Mentor. Your mentor will guide your project.

### Outcomes of this Capstone Project

- Build and implement real-world AI projects.
- You will apply the concepts learned throughout your coursework in a practical, real-world context, demonstrating your ability to synthesize and integrate knowledge.
- Increase your chances of securing high-paying jobs with industry-relevant skills.

## Career Support

- Aptitude & Soft Skill Sessions
- Mock Interviews
- Resume building & LinkedIn profile optimization
- Up to 12 months of placement support
- 6 Placement or Internship Opportunities

# Course **Projects**

Projects cover the following industries:



Retail



Social Media



Supply Chain



Entrepreneurship



E-commerce



Banking



Healthcare



Insurance

## Real Time Social Media Analytics

Create interactive dashboards to analyze real time social media data to make data driven decisions

## Analyzing IPL T20 Cricket

Perform exploratory data analysis (EDA) on years of cricket data to predict match outcomes or identify "MVP" players based on historical performance.

## Customer Churn Analysis

Identify patterns in customer behavior to predict who is likely to leave a service, helping businesses create better retention strategies.

## Housing Price Prediction

Using regression algorithms, you'll predict the market value of residential properties based on 70+ variables like location, area, and amenities.

## Credit Card Fraud Detection

Develop a classification model that identifies suspicious transactions in real-time to prevent financial theft.

## Loan Approval Prediction

Create a system for banks that automatically evaluates a candidate's eligibility for a loan based on their credit history and income.

## AI-Powered Customer Review Analytics for Amazon`

Build an NLP pipeline that analyzes millions of customer reviews, extracts sentiments, identifies common complaints, and helps product teams improve customer satisfaction.

## Enhancing Google Maps Satellite Imagery using Generative AI

Build a GAN-based solution that enhances low-resolution satellite images, improving map clarity for urban planning and navigation.

## Real-Time Social Media Analytics for Netflix Releases

Monitor Twitter, Reddit, and YouTube discussions during a movie launch to measure audience sentiment and identify trending topics.

## Demand Forecasting & Dynamic Pricing for Airbnb

Predict tourist demand using historical booking data, holidays, weather, and local events to recommend optimal room pricing.

## Supply Chain Demand Analytics for Walmart

Analyze inventory, seasonal demand, promotions, and regional sales to predict stock requirements and reduce inventory shortages.

## AI-Based Snake Species Detection & Emergency Response

Build a computer vision model that identifies snake species from an image and recommends the nearest hospital with the required antivenom.



## **Dr. Balasubramanian R**

Professor at IIT Roorkee

Dr. Balasubramanian R, is currently working as Professor at IIT Roorkee. He has completed his PhD from IIT Madras in Mathematics and Computer Science and has more than 20 years of teaching experience. His areas of interest include computer vision, machine learning, pattern recognition, deep learning, etc.



## **Dr. Vivek Kanhangad**

Professor Department of Electrical Engineering at IIT Indore

Dr. Vivek Kanhangad, PhD from Hong Kong PolyU, specializes in computer vision, pattern recognition, biometrics, and biomedical applications. He's VP at IEEE Biometrics Council, an Editorial Board Member, and a Senior Member of IEEE with 12 years of experience.



## **Dr. Tushar Sandhan**

Assistant Professor of Electrical Engineering at IIT Kanpur

Dr. Tushar Sandhan, Assistant Professor of Electrical Engineering at IIT Kanpur, holds a B.Tech from IIT Guwahati and a Master's and PhD from Seoul National University in ECE with a specialization in Computer Vision, ML, and Robotics.



## **Manish Bhatt**

Assistant Professor - IIT, Guwahati

Dr. Manish Bhatt, Associate Professor @ IIT Guwahati holds 14+ years of experience in teaching and industry. He has completed his Ph.D from IISc, Bangalore. His research works deals with engineering aspects of ultrasound imaging for diagnosis in liver fibrosis, breast cancer, deep vein thrombosis etc.



## **Roopa Gupta**

Data & Applied Scientist, Microsoft

Roopa Gupta, Data Scientist @ Microsoft has years of experience in the areas of Predictive and Prescriptive Analysis. She has been involved in Providing data-driven, action-oriented solutions to challenging business problems and also deliver valuable insights via data analytics and advanced data-driven methods.



## **Arun Ravi**

Data Scientist @ Amazon

Arun Ravi has 10+ years of experience and involved in successful data-driven transformations across industries. Proficient discovering the insights via descriptive and diagnostic analysis. Built the classification Multi-Class, Hierarchical Classification, Multi-Label, propensity models, sentiment analysis.



## **Madhu Babu Cherukuri**

Sr. Data Scientist at Intel Corporation

He has over 15 years of expertise in handling various analytics projects, using several types of ML algorithms in multiple business domains. He has extensive knowledge of SAS, SQL, R, and Python and is proficient in big data environments.

```
modifier_ob.select=1  
bpy.context.scene.objects.active = modifier_ob  
print("Selected" + str(modifier_ob)) # modifier ob is  
mirror_ob.select = 0  
# bpy.context.scene.objects.active = mirror_ob
```



## **Phaneendra Akula**

Senior Manager, Data Science - Ex Tesco

Phaneendra Akula is presently working at Sunrise Biztech Systems Private Limited. He has more than nine years of experience in the field of data science and has worked in many prestigious companies like Genpact, TCS, and Tesco.



## **Nishkam Shivam**

Senior Data Scientist - Ex-Walmart

A Senior Data Scientist in the field of Analytics and AI, Mr. Nishkam Shivam is presently working at Bristlecone. He has 9+ years of experience in this particular field and has also worked in renowned companies like Accenture, Walmart, Emeritus, and many more.



## **Suman Mukhopadhyay**

Senior Director & Head of Technology Infrastructure / Cloud - EdgeVerve

He has 23 yrs of experience in IT. Suman worked at top MNCs like Wipro, AT&T, Yahoo, Walmart etc. Skilled in Leadership, IT Budget Ownership, Incident management, Hadoop Solution and Design and managing teams across various geographies.



## **Ashutosh Dixit**

Director - Technology Consulting at LTIMindtree

Ashutosh Dixit is an experienced cloud architect with a demonstrated history of working in the IT services industry since 2010. He has worked at several eminent organizations like Mindtree, Accenture, Oracle, and Capgemini.

# Intellipaat Career Services



**500+**  
Webinars



**600+**  
Job Shares



**3100+**  
Hiring Partners



**30 LPA**  
Highest Salary\*

## What Makes Us **Tick**



### Career-oriented Sessions

Attend 10+ career-oriented sessions by industry mentors and prepare your career trajectory



### Profile Building

Craft a AI & Data Science resume and LinkedIn profile to make an impression on top employers



### Mock Interview Preparation

Prepare with mock interviews including most asked questions by top employers



### 1:1 Mentoring Sessions

Get 1:1 guidance at every step in your career transition to AI & Data Science



### Placement assistance

Receive Multiple Job Opportunities by applying to unlimited Jobs via Intellipaat Job Portal



### Dedicated Job Portal Access

Get Exclusive access to a dedicated job portal providing assistance for the best opportunities available for the learners



### Job Fairs

Job fairs are conducted regularly to introduce learners to major organizations



### Hackathons

Work in teams and get exclusive access to hackathons

## Learner **Reviews**



### Badhri Narayanan

Sr. Software Engg. at Bosch

After taking the course from Intellipaat, I got knowledge of AI in real-world applications. I also got some knowledge of statistics, which helped me to get a new job.



### Deeksha Shetty

Software Engineer at Larsen & Toubro Infotech

Intellipaat has amazing trainers and a great quality of content. I enjoyed learning and the overall experience was very good. Also, the support provided by the team is 24\*7 and it is quick.



### Shaleen Srivastava

Data Scientist at Deloitte

I have recently cracked an interview at Deloitte with 72% salary hike. A big thanks to Intellipaat's instructors who were super helpful in guiding me and resolving all issues in my learning journey.

# Glimpse of our Successful Transitions



4.6



4.5



4.38

## Career Transitions





## About IntelliPaat

IntelliPaat is one of the leading online training providers, with more than 10 million learners in over 155 countries. We are on a mission to democratize education because we believe that everyone has the right to quality education.

We create courses in collaboration with top universities and MNCs focused on employability, including iHUB IIT Roorkee, EICT IIT Guwahati, IITM Pravartak, IIM Ranchi, IIT Jammu, VNIT Nagpur, IU Germany, University of Essex, University of Liverpool, Microsoft, and others.

Our courses come with 24/7 support and are delivered by Subject Matter Experts (SMEs). These courses help learners increase their employability, and our outstanding career services help them jump-start their careers in their dream jobs.



## About iHUB DivyaSampark, IIT Roorkee

iHUB DivyaSampark, IIT Roorkee aims to enable an innovative ecosystem in new-age technologies like AI, ML, Drones, Robots, and data analytics (often called CPS technologies). It aims to do this by promoting and enhancing core competencies, capacity building, and manpower training to provide solutions for national strategic sectors and become a significant contributor to Digital India.



## Collaboration with Microsoft

Microsoft is a global technology leader and a giant in the software industry, driving innovation across cloud computing, AI, and enterprise solutions. With a legacy spanning nearly five decades, Microsoft has transformed how the world works and builds technology. Its industry-recognized certifications validate real-world skills in building and deploying intelligent solutions, enhancing career credibility worldwide.



**10 Million** Learners & 500+ corporates across 155+ countries  
upskilling on Intellipaas platform



## Contact Us

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