



Build your AI/ML career with

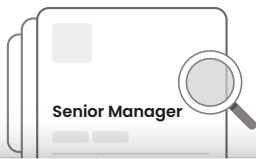
# Specialized Program In AI/ML with Autonomous Vehicles

8 Months Roadmap • 10 hrs/week • Certified by TiHAN, IIT Hyderabad

# The #1 Fastest-Growing Career Field in 2026

**2,50,000+**

Global AI & Autonomous Systems Roles



**₹5.5–28 LPA**

Salary Range by Experience



**41%**

India AI Market CAGR



## INDUSTRIES HIRING

 Automotive & EVs

 IT & SaaS

 Defense & Aerospace

 Logistics & Drones

 Healthcare Robotic

 Manufacturing

## TOP RECRUITERS

 NVIDIA

 BOSCH

Mercedes-Benz

**TATA** MOTORS

mahindra

 TCS  
TATA CONSULTANCY SERVICES

Infosys®

**OLA** ELECTRIC

KPIT

## CAREER ROADMAP

# Foundation

Build strong foundations in data analysis and learn to train and evaluate basic machine learning models.

### MODULE 1

#### Talk to Data

Use Python, SQL, and Excel to work with data and build clear reports that support decision-making.

Structured Thinking • Analytical Thinking

### MODULE 2

#### Read Before You Model

Clean data, create visualisations, and understand patterns before applying any models.

Data Intuition • Pattern Recognition

### MODULE 3

#### Train Your First Brain

Build and evaluate basic ML models, and learn to identify and fix common issues like overfitting.

Problem Framing • Critical Thinking

#### Toolkit

PYTHON

GOOGLE COLLAB

SQL

PANDAS

JUPYTER

EXCEL

NUMPY

#### Roles

#### Unlocked:

MIS Executive

Junior Data Analyst

Analytics Intern

Reporting Analyst

Data Operations Analyst



"Python, SQL, EDA – in the right order, with the right depth. Someone who's built this foundation is genuinely ready to add value on day one."

**Aditya Jain**

Senior Data Scientist



## CAREER ROADMAP

# Core Expertise

Develop advanced ML and AI systems, and deploy end-to-end real-world applications.

### MODULE 1

#### Engineer Smarter Models

Handle imbalanced data, avoid leakage, and choose the right models while uncovering hidden patterns.

Engineering Judgment • Critical Evaluation

### MODULE 2

#### Teach Machines to See & Read

Build deep learning models for images and text using CNNs and Transformers.

Systems Thinking • Pattern Recognition

### MODULE 3

#### Ship It

Take ML projects from idea to production, track experiments, and deploy models as APIs.

Systems Thinking • Rapid Iteration

### MODULE 4

#### Build with AI

Use LLMs, prompt engineering, and RAG to build intelligent, real-world applications.

Adaptive Thinking • Cross-Domain Thinking

### Toolkit

TENSOR FLOW

KERAS

OPENCV

FASTAPI

LANG CHAIN

SCIKIT LEARN

### Roles

#### Unlocked:

ML Engineer

Data Scientist

Reporting Analyst

Computer Vision Engineer



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**Aditya Jain**

Senior Data Scientist



## CAREER ROADMAP

# Industry Readiness Specialisation

Apply AI to autonomous systems, integrating perception and decision-making to build industry-ready projects.

### MODULE 1

#### Meet the Machine

Understand autonomous vehicles, sensors, and how AI powers real-world mobility.

Spatial Reasoning • Operational Awareness

### MODULE 2

#### Navigate the World

Learn ROS and how systems move from sensing to navigation decisions.

Systems Integration • Structured Thinking

### MODULE 3

#### Perception to Decision

Combine perception, language AI, and decision-making in mobility systems.

Cross-Domain Thinking • Systems Integration

### MODULE 4

#### Build & Demo Live

Build a real project and experience live autonomous vehicle demos and ROS sessions at TiHAN, IIT Hyderabad.

Problem Solving • Operational Awareness

### Toolkit

TENSOR FLOW

ROS

GAZEBO

PX4 AUTOPILOT

ARDUPILOT

### Roles

#### Unlocked:

Autonomous Systems Engineer

Drone Engineer

Computer Vision Engineer – AV

Robotics Software Engineer (Perception / Navigation)

AI Engineer – Intelligent Mobility



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**Aditya Jain**

Senior Data Scientist



**INDUSTRY READINESS**

# Industry readiness is built in, not bolted on.

## Placement Opportunity via Masai

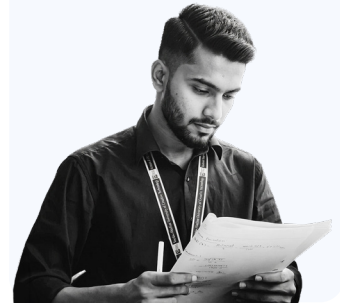
Eligibility: 7+ CGPA and 65% attendance



## 1.5-Day TiHAN, IIT Hyderabad Campus Immersion



## Offline Assessment



Capstone Project Casestudy

## Industry-Endorsed Capstone Project



## Certificate from TiHAN, IIT Hyderabad

Min. 65% attendance + 4 CGPA

## Assured Interview at TiHAN, IIT Hyderabad



# Meet Your Instructors



## **Prof. Sukrit Gupta**

**Assistant Professor, IIT Ropar**

PhD (NTU) Singapore | Biomedical AI | Research & Innovation

Researches AI-driven healthcare systems, neuroimaging, and deep learning, with publications in leading venues including MICCAI and Nature.



## **Arul Francis**

**Associate Director, Data Science & AI**

15+ Years | Enterprise AI | Generative & Predictive Models

Experienced in applying data science and AI techniques to solve business problems, with expertise in analytics, project execution and scalable solutions.



## **Aman Yasin Khan**

**Assistant Professor, IIT Ropar**

Cloud AI & ML | Production Systems

Works on building and deploying scalable AI solutions using AWS, Python, and modern ML frameworks, with hands-on experience in real-world cloud applications.

*Note: Instructors teaching your batch may change based on specific module expertise, or circumstances such as personal emergencies, unavailability etc.*

## OUR ACADEMIC PARTNER

# TiHAN, IIT Hyderabad

TiHAN at IIT Hyderabad is a national initiative advancing autonomous mobility through research, talent development, and real-world deployment. Backed by the Government under NM-ICPS, it brings together academia, industry, and startups to accelerate innovation in next-generation transportation systems.

## Key Highlights

India's #1 testbed for autonomous navigation and drone technology innovation

Enables research in unmanned systems across industry startups and defence use cases

Runs India's premier M.Tech program in Smart Mobility for future engineers

Supports over 35 startups building solutions in autonomous mobility and systems



## ENTRY PROCESS

# Get Started In A Few Steps



### Clear Entrance test

Clear the entrance test to be eligible for the program



### Complete Selection and Enrolment Session

Only shortlisted users can go through this session



### Secure your seat

Learn from India's top educators and stand out from the crowd

*Eligibility: Must have successfully completed Class 12 (or equivalent) from a recognised board.*

## FEE STRUCTURE

# Pay Your Preferred Way

### Entrance Test Fee

Non-refundable

₹99

### Upfront Payment

Pay once, save more

**₹60,000 + GST**

₹4,000 Registration + ₹56,000 Program Fee

### EMI via NBFC Partners

Spread the cost over 9 months.

**₹7,156/month × 9**

₹4,000 Registration + ₹64,287 Total Program Fee

Total: ₹68,404 + GST

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