



भारतीय प्रौद्योगिकी संस्थान रुड़की  
Indian Institute of Technology Roorkee

# AI INNOVATORS BOOTCAMP

**5-Day**  
Training Program

Mastering Intermediate  
**AI Skills** for Real-World  
Innovation

Program Format  
**Instructor-Led**

Learn from  
**IIT R Faculty and  
Industry Experts**

Real-World Projects  
**Capstone Projects  
Inside**

Get Certified  
**IIT Roorkee  
Certificate**

Delivered By

**USAI**® UNITED STATES ARTIFICIAL  
INTELLIGENCE INSTITUTE



# PROGRAM OVERVIEW

Around 59% of organizations in India have adopted AI, surpassing the global average, according to IBM. In specific industries, the BFSI sector leads with a 68% AI adoption rate, followed by the technology sector at 60-65%.

Furthermore, reports like those from MarketWatch indicate that 75% of knowledge workers use AI in their roles, with 90% reporting time savings and 84% experiencing increased creativity.



- 95% of businesses feel the pressure to adopt GenAI.

-89% of businesses expect GenAI to transform their organization.

- Deloitte



**All this implies the need to upskill in AI.**

The "AI Innovators Bootcamp," is a **5-day immersive training program** designed to elevate your AI expertise. This program is meticulously crafted for intermediate learners to bridge the gap between foundational knowledge and advanced AI applications.

Hosted by the prestigious **IIT Roorkee** in collaboration with the **United States Artificial Intelligence Institute (USAII®)**, this bootcamp combines theoretical learning with extensive hands-on sessions led by seasoned faculty and industry experts. Whether you're looking to refine your AI skills or drive impactful innovation, this program will help you unlock your full potential.

**Let's embark on this exciting journey toward mastering AI together!**

Program Duration

**5 Days**

Date(s)

**APR 14<sup>th</sup> to 18<sup>th</sup>, 2025**

Program Fees

**INR 24,651 + GST**



# Why AI Innovators Bootcamp?



## Comprehensive Curriculum

Explore advanced AI concepts and tools over five action-packed days.



## Hands-on Learning

Implement solutions with live coding sessions, real-world projects, and expert guidance.



## Expert-Led Sessions

Learn from IIT Roorkee faculty and top industry professionals.



## Practical Applications

Gain insights into deploying AI models in diverse fields like healthcare, finance, and agriculture.



## Collaborative Environment

Work on team-based capstone projects to solve real-world challenges.



## Prestigious Certification

Strengthen your resume with certification from IIT Roorkee.





# Who Should Attend?

## This program is ideal for

- » **AI Enthusiasts:** Expand your skills with intermediate AI concepts and applications.
- » **Professionals:** Learn how to leverage AI for efficiency and innovation in your organization.
- » **Students and Researchers:** Deepen your AI expertise for academic or research purposes.
- » **Technical Teams:** Equip your team with advanced AI tools and deployment techniques.
- » **Entrepreneurs:** Discover how AI can transform your startup or product strategy.

If you have basic AI knowledge and are ready to elevate your skills, this program is tailored for you!





# Program Highlights

## Your AI Learning Journey in 5 days

DAY

1

### Foundations of AI and Machine Learning

- **Introduction to AI and ML:** Explore AI trends and applications across industries.
- **Python Programming Basics:** Build a foundation in Python syntax, data types, and control structures.
- **Data Manipulation with NumPy and Pandas:** Learn data preprocessing techniques for AI projects.



DAY

2

### Machine Learning Essentials

- **Unsupervised Learning:** Dive into clustering and dimensionality reduction techniques.
- **Supervised Learning:** Understand regression and classification for predictive modeling.
- **Industry Expert Session:** Learn real-world applications from a guest industry leader.



DAY

3

### Deep Learning Fundamentals

- **Neural Networks:** Build and train a simple neural network with TensorFlow.
- **Convolutional Neural Networks (CNNs):** Apply CNNs for image classification.
- **Recurrent Neural Networks (RNNs):** Implement sentiment analysis using RNNs.



DAY

4

### NLP and Advanced Topics

- **Natural Language Processing:** Master text classification and sentiment analysis.
- **Reinforcement Learning:** Explore Q-learning and its applications.
- **Generative Adversarial Networks (GANs):** Build a basic GAN model to understand data generation.



DAY

5

### Applications and Deployment

- **AI Ethics and Bias:** Learn responsible AI practices with case studies.
- **Model Deployment:** Host your models using Flask and Docker.
- **Capstone Project:** Work on team-based projects and present your solutions.



# Learning Outcomes



## **Enhance AI Knowledge:**

Strengthen your understanding of intermediate AI concepts like clustering, RNNs, and GANs.



## **Code with Precision:**

Gain hands-on expertise in Python, TensorFlow, and other leading AI tools.



## **Tackle Real-World Problems:**

Build practical models for challenges like fraud detection, sentiment analysis, and plant disease identification.



## **Master Model Deployment:**

Learn to host and deploy machine learning models efficiently.



## **Work Collaboratively:**

Develop teamwork and presentation skills through capstone projects.



## **Promote Ethical AI:**

Understand and mitigate AI biases, ensuring fairness and accountability in your solutions.



## **Earn Certification:**

Receive a prestigious certificate from IIT Roorkee.



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Indian Institute of Technology - Roorkee is among the foremost institutes of national importance in higher technological education and in engineering, basic and applied research. Since its establishment, the Institute has played a vital role in providing the technical manpower and know-how to the country and in pursuit of research. The

Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. It has also been considered a trendsetter in the area of education and research in the fields of science, technology, and engineering.

**USAII®** | UNITED STATES ARTIFICIAL  
INTELLIGENCE INSTITUTE

The United States Artificial Intelligence Institute (USAII®) is the world's leading Artificial Intelligence certifications provider for students, professionals, organizations, institutions, academia, or governments, looking to upskill and reskill their expertise in the ever-evolving Artificial Intelligence domain.

## Contact US

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# GET STARTED WITH THE MOST STRATEGIC **AI UPSKILLING** PROGRAM EVER!

**ENROLL NOW**