

## Introduction to AI Careers

Artificial Intelligence (AI) has become one of the most in-demand fields in the world. From startups to big companies like Google, Microsoft, Infosys, TCS, and NVIDIA, every industry is hiring AI professionals. AI is used in finance, healthcare, education, automotive, agriculture, gaming, and more. The growth of AI careers is expected to increase by 40% by 2030.

## Machine Learning Engineer

**Role Summary:** Develops and deploys machine learning models.

**Key Skills Needed:** Python, TensorFlow, PyTorch, Data Structures

**Average Salary:** ■6–12 LPA (India) | \$90K–150K (US)

## Data Scientist

**Role Summary:** Analyzes large data to generate insights and predictions.

**Key Skills Needed:** Python, Statistics, SQL, Visualization

**Average Salary:** ■5–10 LPA (India) | \$80K–140K (US)

## AI Research Scientist

**Role Summary:** Works on advanced AI models and publishes research.

**Key Skills Needed:** Deep Learning, Mathematics, Research Papers

**Average Salary:** ■8–18 LPA (India) | \$120K–170K (US)

## Data Engineer

**Role Summary:** Builds data pipelines to support AI systems.

**Key Skills Needed:** Big Data, SQL, Cloud Platforms

**Average Salary:** ■5–12 LPA (India) | \$90K–150K (US)

## AI Product Manager

**Role Summary:** Manages AI product lifecycle and strategy.

**Key Skills Needed:** Product Design, AI Concepts, Communication

**Average Salary:** ■10–25 LPA (India) | \$110K–180K (US)

## NLP Engineer

**Role Summary:** Builds chatbots, speech assistants, and language models.

**Key Skills Needed:** NLP, Transformers, Python

**Average Salary:** ■6–14 LPA (India) | \$95K–160K (US)

## Computer Vision Engineer

**Role Summary:** Works on image recognition, object detection.

**Key Skills Needed:** OpenCV, Neural Networks

**Average Salary:** ■6–15 LPA (India) | \$100K–160K (US)

## AI Ethics Specialist

**Role Summary:** Ensures responsible and fair AI development.

**Key Skills Needed:** AI Ethics, Policy, Bias Removal

**Average Salary:** ■7–16 LPA (India) | \$90K–140K (US)

## Robotics AI Engineer

**Role Summary:** Integrates AI into autonomous robotic systems.

**Key Skills Needed:** Robotics, AI, Control Systems

**Average Salary:** ■6–14 LPA (India) | \$100K–160K (US)

## AI Consultant

**Role Summary:** Guides businesses in AI adoption.

**Key Skills Needed:** Business Strategy, AI Knowledge

**Average Salary:** ■12–30 LPA (India) | \$120K–200K (US)

## **Roadmap to Start a Career in AI**

Step 1: Learn Python Programming Step 2: Understand Mathematics for AI – Linear Algebra, Probability & Statistics Step 3: Practice Data Handling – Pandas, NumPy, SQL Step 4: Learn Machine Learning Libraries – Scikit-Learn, TensorFlow, PyTorch Step 5: Build Real Projects – Chatbots, Predictive Models, Image Classifiers Step 6: Create a Portfolio & Upload to GitHub Step 7: Prepare for AI Interviews and Participate in Hackathons

## **Future of AI Careers**

AI will become a part of every industry. New roles like Prompt Engineers, AI Startup Founders, AI Automation Experts, and AI Trainers are emerging. Those who start early and build strong technical + communication skills can dominate the AI job market by 2030.