Building Career in Ai

Complete Route Map to Start a Career in Artificial Intelligence (AI)

Designed for learners who commented "Routemap" on Instagram — from the desk of @ankurdecodes.

1. Introduction: Why AI Is the Career of the Decade

Artificial Intelligence is not just a tech trend — it is transforming every industry including finance, healthcare, marketing, cybersecurity, education, and even creative fields. Companies are hiring AI-skilled professionals at record speed, and this demand will only grow.
Whether you're a student, a working professional, or someone planning a career switch, this roadmap will guide you step-by-step from beginner to job-ready AI professional.

2. Step-by-Step AI Career Route Map

Step 1: Build Strong Foundations (1–2 Months)
AI is built on four pillars:

1. Programming (Start with Python)
Python is beginner-friendly and the most widely used language in AI. Focus on:
- Variables, loops, functions
- Lists, dictionaries, sets
- File handling
- Modules & libraries

Recommended Learning Order:
1. Python basics
2. Data structures
3. OOP (Object-Oriented Programming)
4. NumPy & Pandas for data handling

2. Mathematics for AI
You don't need high-level maths. The basics are enough:
- Linear algebra basics (vectors, matrices)
- Probability & statistics
- Fundamentals of calculus (for ML intuition only)

3. Logical Thinking & Problem Solving

Practice small coding problems on platforms like:

- HackerRank
- LeetCode (easy level)
- CodeStudio

Step 2: Learn Machine Learning (2–3 Months)

Machine Learning is the core skill required in AI jobs.
What You Need to Learn:

1. Data Preprocessing

- Handling missing values
- Encoding categorical data
- Feature scaling

2. Machine Learning Algorithms

Start with:

- Linear & Logistic Regression
- Decision Trees
- Random Forest
- KNN
- K-Means
- SVM
- Naive Bayes

Then move to:

- Gradient boosting algorithms (XGBoost, LightGBM)

3. Model Evaluation

- Accuracy, precision, recall
- Confusion matrix
- ROC-AUC

Use Scikit-learn for building models.

Hands-On ML Projects (Must Do)

- Spam message classifier
- House price prediction
- Customer churn prediction
- Sentiment analysis model

Step 3: Dive into Deep Learning (1–2 Months)

Deep learning helps you work on advanced AI applications.

Learn These Topics:

- Neural networks basics
- Backpropagation & activation functions
- CNNs (for images)
- RNNs/LSTMs (for text & time-series)
- Autoencoders

Frameworks to learn:

- TensorFlow
- Keras
- PyTorch

Deep Learning Mini-Projects

- Handwritten digit recognition (MNIST)
- Image classification using CNN
- Text classification with LSTM
- Face mask detection

Step 4: Understand & Use Generative AI Tools (0.5–1 Month)

This is where modern AI jobs are shifting — companies now want people who can use AI tools efficiently.

Tools You Should Explore:

- ChatGPT
- Midjourney
- Gemini
- Claude
- Runway
- Leonardo.AI

Why Learn These Tools?

- Boost productivity
- Create AI-powered content
- Automate complex tasks
- Develop AI-driven workflows

Bonus Tip:
To explore trending AI tools quickly, you may try Techyuni's Chrome extension, which helps you discover hundreds of AI tools — free & paid — in a single click.

Step 5: Build Real AI Projects (1–2 Months)
This is the MOST important step — projects make you job-ready.
Beginner AI Projects:
- Chatbot using NLP
- Movie recommendation system
- Resume screening AI
- Fake news classifier

Intermediate Projects:
- Object detection model
- Speech-to-text AI
- Emotion detection in text
- Twitter sentiment dashboard

Advanced Projects:
- AI content generator
- Fraud detection model
- Handwriting-to-text converter

Tip: _Put all your projects on GitHub + make a portfolio website._

Step 6: Create a Job-Ready Profile (1 Month)
Your profile should show that you can solve real problems using AI.
What Your CV Must Include:
- AI/ML projects (with GitHub links)
- Python & ML skills
- Tools (Jupyter, VS Code, Git)
- ML libraries used
- Relevant certifications

Build These Profiles:
- LinkedIn
- Kaggle (optional)
- GitHub

Apply for These Roles:
- Machine Learning Intern
- Data Analyst
- AI/ML Engineer
- NLP Engineer
- Research Intern
- Prompt Engineer (Generative AI)

3. Final 6-Month AI Learning Timeline

- Month 1: Python + Maths basics
- Month 2–3: Machine Learning + small projects
- Month 4: Deep Learning + DL mini projects
- Month 5: Generative AI + Prompt engineering
- Month 6: Build portfolio + internships + applications

4. Pro Tips from @ankurdecodes

- Learn for 1 hour daily — consistency beats everything
- Work on small but continuous projects
- Write short LinkedIn posts about your AI journey
- Experiment with tools — AI is 90% practice, 10% theory
- Don't wait to become an expert — start building now

5. Your Next Step

You've received this roadmap because you commented "Routemap" on the video.

If you follow this guide sincerely for the next 6 months, you will be ahead of 95% of people who only talk about learning AI but never start.

And for more practical insights, daily tech tips, AI breakdowns and career guidance — do follow @ankurdecodes on Instagram.

Stay curious. Stay consistent. Your AI career starts today. 🚀
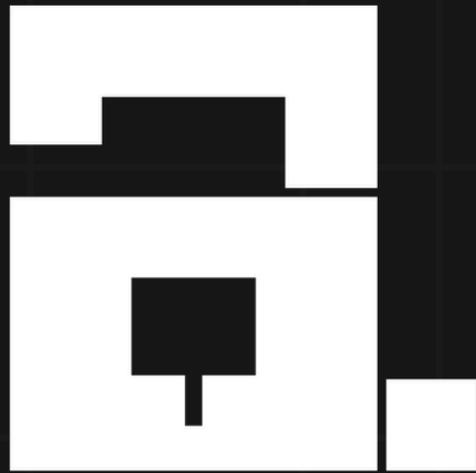
ANKUR CHANDRAKANT

For more such Valuable Resources

Follow @ankurdecodes