

AI ML learning roadmap



Bhai mujhe AI and ML ko sikhna hai or job leni hai to mujhe ai and ML ko learn karne ke liye simple and easiest way me mujhe guide kar ki kaha se start karu or kese karu ye sab bro Abhi agust start hoga to mujhe college Jana ,DSA karna , webdevelopment me project banana placement ki preparation ksrna or ,gate ke exam ki bhi preparation karn ye sab mujhe AI and ML ko December Tak complete karna hai

Bhai Hitesh, tu already ek warrior mindset ke sath kaam kar raha hai — DSA, WebDev, Placement, GATE, AI/ML sab handle kar raha hai. Tujhe bas **strategy + time management + consistency** chahiye.

⌚ Tera Goal:

August – December (5 months) me **AI & ML** ka core knowledge complete karna **placement-level** pe — **interview ready** hona.

🧠 Step-by-Step Roadmap for AI & ML (Easiest + Effective Way):

✓ Step 1: Prerequisites (Aug 1 – Aug 10)

Ye cheeze pehle clear karle — bina inke AI/ML samajh me nahi aayega:

Topic	Recommended Resource	Time
Python Basics	W3Schools Python ↗ or YouTube: CodeWithHarry	5-6 days
NumPy	NumPy W3Schools ↗	2-3 days
Pandas	YouTube: Krish Naik or freeCodeCamp Pandas video	3-4 days
Matplotlib/Seaborn	For graphs – use only as needed	2 days

✓ Step 2: Machine Learning Basics (Aug 11 – Sep 15)

Topic	Resource	Time
What is ML? Types of ML	YouTube: Krish Naik – Playlist start	1 day
Linear Regression	Hands-on + math intuition	2-3 days
Logistic Regression	Classification concept	2 days
Decision Tree, RandomForest	With scikit-learn	4-5 days
KNN, SVM, Naive Bayes	Supervised Learning	4-5 days
KMeans, Clustering	Unsupervised Learning	3-4 days
Evaluation Metrics (Accuracy, Precision, Recall)	Important for projects/interviews	2 days

📌 Use:

- **Google Colab** for hands-on practice
 - **Dataset:** Use Kaggle, sklearn.datasets, or UCI ML repo
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✓ Step 3: Deep Learning Intro (Sep 16 – Oct 10)

Topic	Resource	Time
ANN (Artificial Neural Net)	Krish Naik or Simplilearn on YT	3-4 days
CNN (for images)	Basics only	4-5 days
RNN/LSTM (for text)	Only overview	3 days
Use TensorFlow or PyTorch	Choose one (prefer TensorFlow for beginners)	5 days

✓ Step 4: 2-3 Mini Projects (Oct 11 – Nov 15)

Project Type	Example	Tools
Regression	House price prediction	Python, scikit-learn
Classification	Titanic Survival Prediction	scikit-learn
NLP	Sentiment Analysis on tweets	NLTK, scikit-learn
Computer Vision	Image Classifier (cats/dogs)	CNN, TensorFlow

📌 Host projects on **GitHub**, write clear **README.md** with explanation + results.

✓ Step 5: Resume + Interview Prep (Nov 16 – Dec 15)

Task	How to do it
Resume	Highlight AI/ML projects on top
GitHub Profile	Upload all projects + write documentation
Kaggle Profile	Participate in 1-2 beginner competitions
Interview Qs	Practice: ML Qs from [Machine Learning Interview Prep by Andrew Ng on Coursera]

🧩 Daily Time Strategy (August–December):

Task	Time
College + Viva etc.	Fixed hours
GATE + DSA	2-3 hrs/day
WebDev Projects	3-4 hrs/weekend
AI/ML	1.5–2 hrs daily (focus zone)
Revision	Sunday review
Placement Practice	Alternate days (resume, HR Qs)

📘 Suggested FREE Learning Resources:

Type	Resource
Beginner	YouTube: Krish Naik Playlist ↗
Deep ML	Coursera: Andrew Ng ML Course ↗
Projects	Kaggle Datasets ↗
Practice	Google Colab ↗
Resume Tips	GitHub: AI Resume samples ↗

💡 Tips to Stay on Track:

- 📅 Use Notion or Google Sheet to track progress (I'll give you a tracker if you want)
- 🎯 Set weekly targets: e.g., "This week: Linear Regression + 1 mini project"
- 🧘 Stay away from distractions (movies, reels, negative people)
- 💻 Practice daily on Google Colab, not just watch videos
- 📝 Notes likh, especially formulas, visuals, key concepts

🚀 Final Words:

Hitesh, **AI/ML is not hard**, but **consistency** and **practical application** matter. Tu already MERN Developer + DSA kar raha hai — AI/ML add karega to **profile standout karegi**.

Agar tu bole to me:

- **Notion tracker** bana du AI/ML ke liye
- Weekly reminders de du with tasks
- Resume/LinkedIn profile ka feedback bhi de sakta hu

Bata bro kya chahiye aur shuru karte hai 💪🔥