

AI/ML + Agentic AI + Automation Checklist (2025)

PHASE 1 — Foundations

- [] Python basics
- [] OOP
- [] Math basics
- [] Pandas, NumPy
- [] EDA

PHASE 2 — Machine Learning

- [] Regression & Classification
- [] Random Forest, SVM
- [] KMeans, PCA
- [] ML Projects completed

PHASE 3 — Deep Learning

- [] Neural Networks
- [] CNNs
- [] RNN/LSTM
- [] Transformers basics
- [] DL Projects completed

PHASE 4 — LLMs & Agentic AI

- [] Prompt engineering
- [] RAG system
- [] Vector DB usage
- [] Agent frameworks
- [] Build tool-calling agent

PHASE 5 — Automation

- [] API usage
- [] Web scraping
- [] Browser automation
- [] Automation platforms
- [] Build automation agent

PHASE 6 — Portfolio

- [] ML deployment project
- [] RAG assistant
- [] Multi-agent dashboard

PHASE 7 — MLOps

- [] Docker
- [] FastAPI
- [] CI/CD
- [] Cloud basics

PHASE 8 — Mastery

- [] Read papers
- [] Build advanced projects
- [] Open-source contributions