1-Month AI & Data Science Skill Practice Plan

Week 1: Python & Pandas Practice

Focus on:

- Python basics refresh (loops, functions, data structures)
- Numpy and Pandas: Data loading, cleaning, and basic analysis

Time Allocation (Daily):

- 30 mins: Watch or revise concepts
- 90 mins: Practice and build a small data analysis project
- 30 mins: Explore a Kaggle notebook
- 30 mins: Notes + Upload progress to GitHub

Goal: Complete 1 mini project using Pandas and Numpy.

Week 2: Data Visualization & ML Basics

Focus on:

- Visualizations using Matplotlib & Seaborn
- ML basics: Supervised learning, regression, classification
- Use Scikit-learn for ML models

Time Allocation (Daily):

- 30 mins: Learn ML theory
- 90 mins: Code ML models and visualizations
- 30 mins: Review others projects (GitHub/Kaggle)
- 30 mins: Document and push to GitHub

Goal: Complete 1 ML project (e.g., Titanic Survival Prediction).

Week 3: Deep Learning & Neural Networks

Focus on:

- Neural networks with TensorFlow or PyTorch

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- Build simple image classifier (MNIST or CIFAR)

- Learn about CNN basics

Time Allocation (Daily):

- 45 mins: Learn DL theory + CNNs

- 90 mins: Code and train DL models

- 30 mins: Explore DL notebooks

- 15 mins: GitHub update

Goal: Build and train a DL model (e.g., digit recognizer).

Week 4: Deployment & Portfolio Building

Focus on:

- Learn Streamlit or Gradio for app building

- Deploy project on Hugging Face Spaces or Streamlit Cloud

- Polish GitHub, LinkedIn, and resume

Time Allocation (Daily):

- 30 mins: Learn deployment tool

- 90 mins: Build and test app

- 30 mins: Portfolio work (GitHub, LinkedIn, Resume)

- 30 mins: Practice explaining your projects

Goal: Deploy 1 working project + finalize your portfolio.