

Muhammad Tahir Tayyab

AI/Machine Learning Developer

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Portfolio: mtayyab2.github.io/portfolio/

Tech Stack

Libraries and Frameworks:

- TensorFlow
- PyTorch
- Scikit-Learn
- Huggingface
- Langchain
- Llamaindex
- Ollama
- Pandas
- NumPy
- OpenCV
- Pillow
- SciPy
- Seaborn
- Matplotlib
- Plotly

Architectures:

- CNN
- RNN
- ANN
- Transformer
- Attention Models

Algorithms and Models:

- Random Forest
- Decision Trees
- SVM
- KNN
- Gradient Boost
- K-Means Clustering

Projects

Personal Chatbot

A basic LLM Chatbot that works locally on your PC.

Chat with your Doc

A basic LLM chatbot that find relevance information from a PDF file and answers questions regarding that document file.

Hospital Readmission Prediction for Diabetes Patients

A binary Classification system that predicts whether a patient will be readmitted post-discharge.

Detecting Tribal Villages in Satellite Images

A system that detects remote tribal African village using satellite images.

Advanced Camera Calibration Techniques for Virtual World

Precise camera poses derived from game mod engine's epipolar geometry.

Education

MSEE AI and Autonomous Systems

National University of Sciences and Technology Pakistan, 2021-Present

BS Electrical Engineering

Institute of Space Technology Pakistan, 2016-2020

Languages

English : *Native or Bilingual*

Urdu : *Native or Bilingual*