

SYED HANEEF ULLAH

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Summary

Motivated Computer Science graduate with hands-on experience in Python, AI, and software development. Skilled in ML models, chatbot apps, and NLP with tools like Streamlit, Django, and Hugging Face. Passionate teacher and quick learner with a focus on real-world problem solving.

Technical Skills

- **Languages:** Python, C++, JavaScript, SQL
- **Libraries:** Pandas, NumPy, Seaborn, Matplotlib, Sklearn
- **Frameworks:** TensorFlow, Django, fastapi, N8N, Make.com, Flask, LangChain, Streamlit
- **Tools:** Git, Colab, VSCode, Docker, ChatGPT, SQLite
- **Web Dev:** HTML, CSS, Bootstrap, React (basic)
- **ML:** Regression, Classification, Clustering

Projects

Weather Forecasting using LSTM

Python, Sklearn, LSTM

- Developed a deep learning model using LSTM networks to predict future temperatures based on global weather data.
- Preprocessed large-scale weather dataset by handling categorical features (Label Encoding), time-series transformations, and normalization using MinMaxScaler.
- Built and trained LSTM model with Dropout regularization and tuned hyperparameters (units, dropout rate, batch size, epochs) for optimal performance.
- Evaluated model performance using MAE, RMSE, and R² score, achieving strong predictive accuracy.
- Applied SHAP explainability techniques (KernelExplainer, summary plots, force plots) to interpret model predictions and identify key weather features influencing temperature.
- Visualized training/validation loss curves and SHAP plots using Matplotlib for insights and reporting.

AI-Powered RAG Chatbot

Streamlit, FAISS, LangChain, GPT-4o-mini

- Developed Retrieval-Augmented chatbot using LangChain, FAISS, and OpenAI's GPT-4o-mini.
- Built modular LangGraph nodes for retrieval, context filtering, memory saving, and response generation.
- Integrated Streamlit frontend with custom tools for real-time interactive Q/A from local documents.

Pharmacy Inventory Report System

Django REST Framework, PostgreSQL

- Designed APIs for sales reports, low stock alerts, and expired medicines using Django ORM.
- Applied business logic using @api_view and queryset filters; tested APIs via Postman.
- Included threshold-based inventory alerting for real-time pharmacy insights.

Heart Disease Prediction System

Python, Scikit-learn, Matplotlib

- Built ML models (Logistic Regression, KNN, Random Forest) to predict heart disease from clinical data.
- Conducted EDA using heatmaps, scatterplots; handled preprocessing and scaling.
- Tuned hyperparameters using GridSearchCV and RandomizedSearchCV to improve accuracy.

Education

Govt Graduate College Gulberg, PUCIT Affiliated

2021 – 2025

BS in Computer Science (Graduated)

Qaddafi Stadium, Lahore

hyperref

Certificates

- ML (Machine Learning) / DL (Deep Learning) Course — Corvit Lahore (Dec 2024) View Certificate

Languages & Interests

- **Languages:** English, Urdu

- **Hobbies:** Reciting Quran, Reading Books, Playing Cricket

Key Attributes

- Strong problem-solving and analytical skills
- Quick learner, team player, great communicator
- Proficient in Python, Java, Git, collaborative tools