

Sara Manzoor

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Professional Summary

Full-Stack Developer and AI/ML Engineer with hands-on experience building production web applications (React, Next.js, Flask) and AI-powered systems (RAG, LLMs, Computer Vision). Currently COO at DevHatch Labs, leading development teams and integrating AI features into web platforms. Top 10 finisher, South Punjab Generative AI Hackathon 2026. Seeking full-stack or AI/ML internship and freelance opportunities.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL
Frontend: React, Next.js, Tailwind CSS, Bootstrap, HTML5, CSS3
Backend: Flask, REST APIs, MySQL, SQLite
AI/ML: TensorFlow, PyTorch, Scikit-learn, XGBoost, LightGBM, OpenCV, YOLOv8, NLP
LLM/RAG: LangChain, Groq AI (Llama 3 70B), ChromaDB
Tools: Git, GitHub, Vercel, Jupyter Notebook, Google Colab

Experience

Chief Operating Officer Jun 2026 – Present
DevHatch Labs

- Lead development teams building web applications with Next.js and React; oversee full project lifecycle from planning to deployment
- Integrate AI-powered features (RAG, LLMs) into client web platforms

Web Developer Intern May 2026 – Jun 2026
Afynix Digital

- Built TechNest (React e-commerce platform) and Nimbus Weather (real-time dashboard using OpenWeather API)
- Implemented cart/wishlist systems, dark/light mode, and live API integrations across 3+ projects

Machine Learning Intern May 2026 – Jun 2026
SAM AI Technologies

- Built and evaluated classification models for fraud detection and sentiment analysis using Scikit-learn and Python
- Applied SMOTE and NLP preprocessing techniques with full precision/recall/F1 evaluation

Machine Learning Intern Aug 2025 – Sep 2025
Elevo Pathways

- Delivered 7 ML projects spanning regression, classification, clustering, and time-series forecasting
- Achieved 90%+ accuracy using Scikit-learn, XGBoost, and feature engineering pipelines

Projects

UoL AI Assistant – Flask, LangChain, Groq Llama 3 70B, MySQL Top 10, GenAI Hackathon 2026

- Bilingual (EN/UR) RAG chatbot with voice I/O and role-based responses across 16+ topics

High-Cost Patient Prediction – XGBoost, LightGBM, Scikit-learn Softtec 2026, FAST-NUCES

- Ensemble model with 336 engineered features predicting high-cost healthcare members; 0.825 recall

Grocery Store E-Commerce – Flask, MySQL, JavaScript, Chart.js

- Full-stack platform with 42+ products, admin dashboard, order management, and delivery scheduling

Smart Retail Shelf Monitoring – YOLOv8, OpenCV, Tkinter

- Real-time object detection system for product counting and automated low-stock alerts

ASL Sign Language Recognition – TensorFlow, Keras, OpenCV

- CNN model for American Sign Language classification with real-time prediction confidence scores

TechNest & 4 Additional Web Apps – React, HTML5, Tailwind CSS, Chart.js

- E-commerce, dashboard, and landing page projects (LuxEstate, AURUM, Apex, SwiftEats) – full portfolio on GitHub

Education

BS Computer Science 2024 – 2028
University of Layyah CGPA: 4.0/4.0

Achievements & Certifications

- **Top 10**, South Punjab Generative AI Hackathon 2026 – UoL AI Assistant
- **2nd Position**, ICS – BISE DG Khan Board (2023); **CM Merit Award** – Laptop Scheme, Govt. of Punjab (2023)
- **E-Scotte Merit-Based Scholarship** – BISE Multan (2023)
- 26+ certifications from Google, Kaggle, DataCamp, AWS, and HackerRank in Machine Learning, Cloud Computing, Prompt Engineering, and Data Science