

Sameer Shah

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SUMMARY

Developer specializing in Python, Deep Learning, and modern web technologies. I build intelligent, data-powered applications that turn ideas into production-ready solutions.

PROJECTS

Facial Expression Recognition (FER-2013) - [GitHub](#)

(*PyTorch, CNN, Flask*)

- Built a CNN-based classifier achieving **72% test accuracy** on the FER-2013 dataset.
- Preprocessed 35k+ facial images with augmentation to improve generalization.
- Deployed via Flask with ~200ms real-time prediction latency.

Amazon Price Tracker - [GitHub](#)

(*Python, NextJS, Selenium, PostgreSQL, FastAPI*)

- Built a **full-stack Amazon Price Tracker**, integrating automation and scraping.
- Developed a **FastAPI backend** using **Selenium (headless Chrome)** to extract product data and store results in PostgreSQL dynamically.
- Designed a **Next.js frontend** for displaying tracked products, price history, and alerts in an intuitive dashboard.

YouTube Gesture Controller - [GitHub](#)

(*Python, OpenCV, MediaPipe, PyAutoGUI*)

- Created a real-time hand gesture recognition system for controlling YouTube playback.
- Integrated MediaPipe's Hand Landmark detection with PyAutoGUI for smooth interaction.

RAG Chatbot - [GitHub](#)

(*Python, FAISS, Transformers, LangChain*)

- Developed a **Retrieval-Augmented Generation (RAG)** chatbot capable of providing context-aware responses from custom text data.
- Implemented FAISS-based vector retrieval and transformer-based response generation.
- Demonstrated strong understanding of **vector databases, embeddings, and NLP pipelines** through this class-level project.

SKILLS

- **Programming:** Python, JavaScript (basic)
- **ML/DL:** scikit-learn, PyTorch, NumPy, Pandas, Matplotlib
- **Web/Data:** Django, Next.js (basic), FastAPI, BeautifulSoup, Selenium, Requests
- **MLOps/Cloud:** AWS (EC2, S3), Vercel, Streamlit
- **Databases:** MySQL
- **Frontend:** HTML, CSS, Bootstrap

OTHER EXPERIENCE

Spectronix

Sales Executive (Discord, Twitch)

Karachi, Pakistan

August 2024 – September 2024

- Built and maintained strong relationships with gaming streamers in the graphic design niche.
- Successfully sold custom logos and emotes to enhance their channel branding.

ProAssistant

Virtual Assistant Private Label - (Hybrid)

Karachi, Pakistan

February 2023 – December 2023

- I've guided the identification and sourcing of high-demand, low-competition products, resulting in substantial sales growth and market share expansion.
- Conducted a thorough analysis of products and systematically segmented them based on client demand.

EDUCATION

Iqra University

Bachelor of Computer Science (BSCS)

Karachi, Pakistan

October 2022 - Present

CERTIFICATION

ACM IU Student Center

Participated in the Programming Competition

Karachi, Pakistan