

Muhammad Sohaib Shoukat

Machine Learning Engineer

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Motivated Computer Science student with a solid foundation in Artificial Intelligence, Machine Learning, NLP, Data Science, Data Engineering and Generative AI technologies. Eager to apply technical expertise to contribute to rapid prototyping and Proof of Concepts (PoCs) in Generative AI, leveraging Python and related frameworks. Seeking an opportunity to collaborate with industry professionals and develop innovative solutions.

SKILLS

Artificial Intelligence	LLMs (Model Training, Fine-tuning, Retrieval-Augmented Generation, Transformers, Prompt Engineering) NLP (Text Classification, Sentiment Analysis, Named Entity Recognition) Frameworks & Tools (OpenAI API, Hugging Face Transformers and Datasets, Gemini, LangChain, FastAPI)
Machine Learning & Deep Learning	ML (Regression, Classification, Clustering, Reinforcement Learning) DL (CNNs, RNNs, LSTM, GRUs, Attention-Based Models) Computer Vision (Image Classification, Object Detection, Image Segmentation, Optical Flow Analysis)
Generative AI	Generative Adversarial Networks, Diffusion Models, Audio-to-Text, Text-to-Image Synthesis, Conditional Image Generation, Audio Synthesis, Whisper AI, Zonos Tools and Libraries (Hugging Face, Scikit-Learn, PyTorch, Tensorflow, Weights and Biases)

EDUCATION

BS Computer Science	<i>Fast National University of Computer and Emerging Sciences, Pakistan</i>	2021 - 2025
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WORK EXPERIENCE

Machine Learning Engineer Freelancing and online paid projects	December 2023 – Present
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- Trained and fine-tuned AI and ML models to achieve high accuracy and optimal performance.
- Built Retrieval-Augmented Generation (RAG) systems using LangChain for enhanced query responses.
- Deployed scalable AI solutions on cloud platforms (AWS, GCP).
- Collaborated on technical problem-solving with a team of AI experts.
- Communicated complex AI concepts effectively to clients.

PROJECTS

HealthGenix – Final Year Project • Developed an AI-powered gym, diet and rehabilitation app focusing on pose detection, diet recommendation, and injury recovery. • Utilized MediaPipe for body position estimation, React Native for front-end, and Flask for backend model deployment. • Integrated for user progress visualization and designed a premium category with online transaction features.	March 2025
Rekhta Roman Urdu Poetry Genertor • A deep learning based poetry generation model that creates Roman Urdu poetry by entering seed word. • Scraped poetry directly from Rekhta website using selenium. • Preprocessed the data to improved the structure and Trained Bidirectional LSTM Model for sequencebased poetry generation. • Make user friendly interface and Deploy it on Streamlit .	February 2025
Multilingual Speech Translator • Developed an end-to-end AI Powered speech translator using Automatic Speech Recognition , Whisper , LLAMA and TTS . • Optimized LLM Based Translation pipeline using Hugging Face Transformer. Integrated Google Text to Speech for text to audio. • Implemented scalable Deployment using Streamlit making the system accessible via web interface.	January 2025

CERTIFICATIONS

Introduction to Generative AI <i>Google Cloud Skills Boost</i>	February 2025
Introduction to Reliable Deep Learning <i>Great Learning Academy</i>	February 2025

VOLUNTEER

University Top Programmer team , <i>Fast National University of Computer and Emerging Sciences</i>	Sep 2022 - Present
<ul style="list-style-type: none">• Organized tech events and workshops as part of the Tech Team.• Enhanced collaboration, communication, and organizational skills.	