

MUHAMMAD HUZAIFA SAQIB

Motivated Computer Science graduate passionate about AI, Backend, App development, and DevOps, eager to excel as a team player.

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Professional Summary

With my undergraduate degree just around the corner, I have explored AI and Machine Learning to solve real-world problems and create innovative applications. I have trained neural networks for generative models, worked on API integration and Prompt Engineering, and gained experience in building and deploying AI models, mobile apps with React Native, and Python backend systems with Django, utilizing DevOps for deployment. Committed to continuous learning, I am passionate about applying my skills to drive innovation and deliver impactful solutions

Education

BS Computer Science

FAST-NUCES

August 2021 - June 2025

Relevant Courses: AI, Machine Learning, NLP, Generative AI, DevOps, Software for Mobile Devices

CGPA: 3.43/4.0

Skills

- **AI & Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Ensemble Methods, Model Evaluation, Feature Engineering, Hyperparameter Tuning.
- **Deep Learning & Generative AI:** Neural Networks, CNNs, RNNs, GANs, Transformers, Transfer Learning, Reinforcement Learning, Multiclass Classification, BERT, GPT, NLP, Fine-Tuning, Embeddings, RAG, Agents, TensorFlow, PyTorch.
- **API Integration:** RESTful APIs, Integration with Backend Services, Authentication, Endpoint Management, API Testing, Data Integration, AI-driven APIs.
- **Prompt Engineering:** Prompt Design, Zero-shot/Few-shot Learning, Chain-of-Thought, In-context Learning, Instruction-based Prompts, Specificity, Hallucination Reduction, Prompt Chaining
- **Backend Development:** Django
- **DevOps:** CI/CD, Docker, Kubernetes, Automation, Cloud, Version Control, Infrastructure as Code, Scripting, Monitoring, Deployment.
- **Mobile App Development:** React Native
- **Frontend Development:** React, Next.js

Projects

FiberFlow – Apparel PLM (Final Year Project)

Next.js, Django, YOLO

- Engineered a full-stack Apparel PLM platform with admin-user dashboards for order, product, and user management.
- Integrated YOLO-based fabric defect detection via Flask, with real-time camera stream processing for automated textile quality control.

ClinicalBrain – AI with a Medical Mind

RAG, LangChain

- Implemented a RAG-based clinical Q&A tool using MIMIC-IV data with LLMs and Streamlit.
- Enabled context-aware medical responses with real-time document retrieval.

BillBot – Speak and Let AI Create Your Bill

NLP, API Integration

- Developed an AI-powered invoicing tool that converts voice input into structured invoice data using speech recognition and LLMs.
- Integrated PDF generation and WhatsApp delivery for real-time, professional billing.

TranslateX – Bridging languages, connecting worlds

Transformer, PyTorch

- Built and trained a Transformer-based Arabic-to-English NMT model using Helsinki-NLP and Mahadih534 datasets.
- Deployed the model on Hugging Face with a Streamlit-based UI for real-time translation.

BrickNest – Search. Discover. Own. All with BrickNest

React Native, Appwrite

- Crafted a full-stack real estate app using React Native, Appwrite, and Google OAuth for secure authentication and data management.
- Implemented dynamic property listings, user profiles, and smooth navigation for a seamless mobile experience.

Certifications

- **Machine Learning Specialization** – DeepLearning.AI

Co-Curricular Activities

- **Head of Industrial Engagement Team** – SES Software Engineering Society
- **Member** – FCAP FAST Club of App Development and Programming