

SAAD HUSSAIN KAZMI

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OBJECTIVE

Computer Scientist with strong programming fundamentals and hands-on experience in Python, Django, RESTful APIs, and databases. Skilled in building end-to-end AI/ML solutions including intelligent automation, deployment pipelines, and production systems with expertise in NLP, computer vision, and LLM applications.

EDUCATION

FAST (National University of Computer and Emerging Sciences)

Lahore, Pakistan

Bachelor of Science, Computer Science | *Dean's Honor List* (2x)

(Sep 2021 - June 2025)

Relevant Coursework: Applied Machine Learning, Deep Learning for Perception, Natural Language Processing, Generative AI, Data Science, Digital Image Processing, Computer Vision

SKILLS

Languages: Python, C++, C

Web & Databases: Django, React, FastAPI, RESTful APIs, PostgreSQL, MySQL, Supabase

ML & DL: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Keras, Time Series Forecasting, Anomaly Detection, CNNs, Transfer Learning

Computer Vision: Object Detection, Semantic & Instance Segmentation, OpenCV

NLP & LLMs: LangChain, RAG, Hugging Face Transformers, LLM Fine-tuning

Tools: Git, GitHub (Branching & Merging), N8N

EXPERIENCE

Associate Data Scientist

Lahore, Pakistan

FiveRivers Technologies

(June 2025 - Present)

- Contributed to an AI-driven room design system featuring a 2D image editing pipeline for intelligent layout modification and interior visualization.
- Built a data ingestion and scoring platform analyzing public candidates across elections using structured and unstructured data sources (news, social media, legislative records).
- Designed rule-based and NLP-driven scoring logic to classify and rank entities, with FASTAPI backend APIs serving real-time, location-based results.
- Developed time series-based anomaly detection models to identify irregular behavioral patterns and generate synthetic data for rare-event prediction.

PROJECTS

Oncology Trial Matching & Drug Intelligence Platform

Contributed to an AI-driven system that matches oncology patients to relevant clinical trials, and developed a RAG-based conversational interface over a Neo4j drug knowledge graph to support drug repurposing research.

AgriSmart (Final Year Project)

Built a full-stack agricultural platform (React, Django, PostgreSQL, REST APIs) with farm management, a buyer-seller marketplace, and integrated AI models for disease detection, yield prediction, and price forecasting.

DCACNet - Skin Cancer Detection System

Designed custom attention-based CNN to classify seven types of skin lesions using HAM10000 dataset. Achieved 90.8% test accuracy through data augmentation and extensive training.

RAGMail – AI Email Assistant

Developed a Django-based application with REST APIs, integrating semantic search and vector databases to enable context-aware email drafting and automated FAQ retrieval.