

Syed Sameed Hussain

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WORK EXPERIENCE

AI Engineer – [Avanza Innovations](#)

January 2025 – Present

- Developed an LLM-based audit checklist generator for bank policy and external documents using RAG and integrated it with existing applications via Flask APIs.
- Scaled Orion, an end-to-end AI chatbot development project with around 100 APIs that lets users build personal chatbots backed with RAG databases, fine-tuning abilities, safety guardrails, and more.

AI Engineer – [Indus Valley Technologies](#)

June 2024 – January 2025

- Trained an AI model to match candidate resumes with job requirements, generating match scores and summaries to streamline the recruitment process.
- Created a testing framework for LLMs on Amazon Bedrock, using benchmarks including MMLU PRO, GPQA, and HellaSwag to evaluate performance.
- Developed datasets accounting for over 150,000 entries to train models for function-calling with multi-turn interactions, including a separate dataset for optimizing model alignment (DPO).
- Trained 10 AI models and developed a Mixture-of-Experts system with 83B parameters, enabling 14 efficient API integrations.
- Deployed custom AI models on Google Cloud to build reliable and scalable inference capabilities.

Data Analyst Intern – [Future Content Company](#)

December 2022 – January 2023

- Scraped Google Maps to collect data on all the restaurants in Karachi using Selenium and PyAutoGUI.
- Scraped Twitter using snsrape, applying conditions to gather data from Pakistani journalists.
- Analyzed and visualized the data from these scrapes using PowerBI.

PROJECTS

Sugarcane Yield Analysis and Prediction

- Developed a model to predict sugarcane yield per acre (in tonnes) based on vegetation indices derived from satellite data.

Water Potability Analysis and Prediction

- Trained three ML models to predict water potability and deployed the best with FastAPI.

Used Car Prices Analysis and Prediction

- Developed a model to predict used car values based on key features.

EDUCATION

2020 – 2024: NED University of Engineering & Technology, Karachi

BS Computer Science & Information Technology

CGPA: 3.73

ACHIEVEMENTS

1st Position– Business Intelligence Track In DATATHON 2.0 by IBA, 2024

- Competed in a two-day IBA BI event, creating a data pipeline and presenting KPIs via Power BI.

CERTIFICATIONS / TRAINING

- Data Analysis with Python
- Python for Data Science, AI & Development