

FAISAL AHMED SIDDIQUI

[in LinkedIn](#) | [+92-317-5613358](#) | [Artificial Intelligence Engineer](#) | [fa0900467@gmail.com](#) | [GitHub](#)

Skills

- C++ | Python | JavaScript | C | MySQL | Node | Express | OOP | DSA | Bootstrap | jQuery | Hugging Face
- Cloud Computing | CI/CD | Jenkins | GitHub | DVC | Webhooks | MLflow | Apache Airflow | Docker | Git
- Tensorflow | PyTorch | Computer Vision | NLP | Generative AI | Llama-index | Vector Databases | LLMs | RAGs | Fine-tuning
- Teamwork | Leadership | Decision Making | Adaptable | Emotional intelligence | Attention to detail

Experience

**Jr. Data Scientist –
Joyn Group**

Data Science

09/2023 - Current

- Successfully fine-tuned the state-of-the-art **OpenAI Whisper** speech recognition model on a custom dataset of Urdu audio recordings to achieve significant improvements in transcription accuracy.
- Implemented robust evaluation metrics (e.g., WER) to track progress and compare results with benchmarks. Reduced Word Error Rate (WER) by **9%** compared to baseline model **49%**.
- Developed and implemented fine-tuning techniques for large language models (LLMs) to improve performance on named entity recognition **NER** tasks.
- Successfully fine-tuned **YOLO-v8** for a domain-specific task, demonstrating expertise in near-real time object detection and recognition model adaptation.
- Conducted in-depth data analysis and generated comprehensive reports, showcasing data manipulation and communication skills.
- Optimized model performance through techniques such as hyper-parameter tuning and data augmentation, highlighting problem-solving abilities.

Independent Learning:

- Proactively explored cutting-edge NLP techniques, including Retrieval-Augmented Generation **RAGs** and the **Llama-index** framework, demonstrating initiative and self-directed learning.
- Explored latest Parameter Efficient Fine-tuning techniques like **LoRA** and **QLoRA** for LLMs to enable memory requirements more manageable and efficient.
- Expressed strong enthusiasm for continuous learning and development in the NLP, Computer Vision and Gen.AI domain.

Education

Bachelor of Artificial Intelligence

FAST National University Islamabad, Pakistan **08/2019 - 06/2023**

- Major in Deep Learning

Projects

- **UPG:** Generated Urdu poetry using Bigrams and Trigrams using python.
- **Near Real-time Data Warehouse:** Designing and Implementing **ETL** pipeline on a large data warehouse using Java and MySQL to analyze the raw business data and fetch valuable insights.
- **OWL ONTOLOGY:** Designing an ontology using **OWL** and modeling decisions using a multi class dataset while applying **SPARKLE** queries after deriving a specific ontology, Knowledge Graphs course project.
- **VGG-16:** Designing **VGG-16** architecture from scratch and using CIFAR-10 dataset to fetch prediction output.
- **MLOps FYP:** Performed most of the **MLOps** technologies to our Final Year Project like MLflow, Git, GitHub, Docker, Apache Airflow, DVC and Webhooks.

- **FYP | Epileptic Seizure Detection using EEG signals:** Developed an end user model to detect and predict Epileptic Seizure in patients using **EEG signals** variability and provide valuable results to the medical experts on Web application for further analysis of the results fetched from the AI/DL model. HTML, CSS, Bootstrap, Flask, Python.

Certifications

- Passed AWS Certified Cloud Practitioner Certificate – **Amazon**
- Tensorflow developer Certificate in 2023: zero to mastery – **Udemy**
- The Complete Web Development 2023 Bootcamp by Angela Yu – **Udemy**
- NLP Specialization – **Coursera**