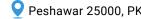
MUHAMMAD UZAIR



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AI& NLP ENGINEER

Highly motivated and innovative AI & NLP Engineer with a strong background in Computer Science, specializing in Generative AI, Natural Language Processing (NLP), and Large Language Models (LLM). Proficient in fine-tuning LLMs and their deployment at the production level. Experienced in developing LLM-based applications and recommendation engines. Seeking to leverage my expertise to contribute to a forward-thinking team and drive impactful solutions in a dynamic, tech-driven environment.

WORK EXPERIENCE

Research Assistant, SmartLab, ICUP, Peshawar

Nov 2024 - Present

- Worked on the fine-tuning of various large language models(LLM) for code generation by utilizing Parameter-Efficient Fine-Tuning (PEFT) techniques, including LoRA and QLoRA.
- Having Research Publication on "Urdu Fake News Detection using machine learning and Deep Learning Techniques".
- Fine-tuned Mistral for summarization.
- Sentiment Analysis from urdu text data using various classification methods.
- · Implemented rule-based classifiers and machine learning algorithms, including KNN, Naive Bayes, SVM, stacking classifiers, and boosting classifiers.
- Developed preprocessing techniques for text data to enhance model performance.
- Explored DL approaches with RNNs, LSTMs, and GRUs utilizing TensorFlow and scikit-learn.
- Leveraged transformers based Models like BERT models for advanced NLP tasks.

ML Intern, CodeVenator

Jun 2023 - Oct 2024

- Worked on web scraping from various sources and storing the data in a structured manner.
- · Worked on Market Sales prediction and data analysis projects.
- Build user interface for classification and regression problems through streamlit.

SKILLS

Generative & NLP: RAG, LangChain, HuggingFace, LLMs, FineTuning, OpenAi, LLama, VectorDB. **Deep Learning:** Transformers, RNN, LSTMs, GRUs CNN, ANN, TensorFlow, Keras, Pytorch. **Machine Learning:** Stacking Models, Boosting Models, Classification, Regression, Data

Preprocessing, Feature engineering, Pandas, Numpy, Scikit-learn.

Programing Languages: Python, C++, Java, SQL, MySQL.

Application Development: FastAPI, RESTful, APIs, Microservices, Streamlit, Web Scraping.

Version Control: Git, GitHub

EDUCATION

BS Computer Science

CGPA: 3.54/4.0 ICUP, Pakistan

COURSES AND CERTIFICATIONS

GenAi Course by Krish Naik **Advance Python Course by NAVTCC Machine Learning Specialization**

Deep Learning Specialization

Natural language processing (NLP)

Database Development and SQL Specialization

PearsonVue Python Certificate