

# MUHAMMAD UZAIR



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Peshawar 25000, PK

## 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

<b>Generative &amp; NLP:</b>	RAG, LangChain, HuggingFace, LLMs, FineTuning, OpenAi, LLama, VectorDB.
<b>Deep Learning:</b>	Transformers, RNN, LSTMs, GRUs CNN, ANN, TensorFlow, Keras, Pytorch.
<b>Machine Learning:</b>	Stacking Models, Boosting Models, Classification, Regression, Data Preprocessing, Feature engineering, Pandas, Numpy, Scikit-learn.
<b>Programing Languages:</b>	Python, C++, Java, SQL, MySQL.
<b>Application Development:</b>	FastAPI, RESTful, APIs, Microservices, Streamlit, Web Scraping.
<b>Version Control:</b>	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