

Raees Zakir

raeeszakir34@gmail.com | +92-333-922669-6 | www.linkedin.com/in/raeeszakir | github.com/raees123git

Profile

Currently doing my Bachelors in Artificial Intelligence and also a part Medical Imaging & Diagnostic Lab (MIDL- NCAI) as an AI intern, working with RAG applications and fine tuning models.

Education

COMSATS University, Islamabad

Bachelors of Science in Artificial Intelligence (7 Semesters Completed)

Experience

AI Intern |MIDL-NCAI (Medical Imaging & Diagnostics Lab-National Center of Artificial Intelligence), 2025 (Feb) - *

- Worked with medical-related datasets to preprocess and analyze information for AI applications
- Fine-tuned models like RoBERTa and Gemma to improve performance on domain-specific tasks

Projects

SkillEdge AI (FYP) | *Python, Fast API*

- Developed **SkillEdge AI**, an AI-powered mock interview platform using natural language processing to assess verbal and non-verbal performance.
- Fine Tuned Gemma3-1B model on Question Answers data set to generate dynamic questions.

RAG Application | *Python, FAISS, Hugging Face Transformers, Gemini API, Streamlit.*

- Developed a RAG system combining FAISS for vector similarity search and Hugging Face embeddings for document representation.
- Integrated Google Gemini as the LLM for generating accurate, context-aware responses to user queries.
- Designed a modular pipeline: document upload → embedding → semantic retrieval → LLM generation.
- Built a Streamlit web app to provide an interface for uploading files, entering queries, and displaying results.

Fine Tune Roberta/Gemma | *Python, Colab*

- Fine-tuned a RoBERTa/Gemma model for medical question answering to enhance domain-specific understanding.
- Preprocessed and curated medical QA datasets to improve model accuracy and relevance.
- Evaluated performance using NLP metrics and optimized responses for precise medical information retrieval.

Skills

- **Languages:** Python, JavaScript
- **Frameworks:** Tailwind CSS, Bootstrap, Fast API
- **Databases:** MongoDB
- **AI/ML** Machine Learning, Deep Learning, Data Preprocessing, Fine Tunning, Lang Chain
- **Others:** Git, GitHub