HAMMAD AHMAD (AI Engineer)

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Professional Summary

AI Engineer with 2+ years of experience specializing in conversational AI agents and Retrieval-Augmented Generation (RAG) systems. Skilled in integrating LLMs, optimizing RAG pipelines, and deploying scalable solutions using FastAPI and Docker.

EDUCATION

University of Engineering and Technology Peshawar.   *August 2021 - Ongoing*

- **Degree:** Bachelor of Science in Computer Systems Engineering
- **Current CGPA:** 3.87/4.0

PROFESSIONAL EXPERIENCE

Technical Intern – *CODE informatics*   *July 2024 – Ongoing*

- Worked on the FOCUSMATE project to help autistic individuals reduce social anxiety and improve eye contact using AI-driven solutions.
- Integrated and deployed pre-trained Large Language Models (LLMs) locally using FastAPI and Docker for various projects, including creating a chatbot as part of a company initiative.
- Applied Retrieval-Augmented Generation (RAG) techniques to enhance chatbot performance and user interaction.

Machine Learning Intern - *TanXor*   *Jul 2023 – Aug 2023*

- Developed and fine-tuned machine learning models for predictive analytics and data-driven decision-making.
- Conducted data preprocessing, feature engineering, and model evaluation to improve model accuracy and performance.
- Collaborated with cross-functional teams to deploy machine learning solutions in real-world applications.

SKILLS/INTERESTS

SKILLS:

- **Programming Languages:** Python, MATLAB, C/C++, JavaScript
- **ML Libraries:** Scikit-Learn, NumPy, Pandas, Matplotlib, XGBoost
- **DL Libraries:** PyTorch, TensorFlow, Keras, YOLOv8
- **MLOps:** FastAPI, Docker, Flask, DVC, Git/GitHub, DagsHub, MLFlow
- **Generative AI:** GPT, Llama, Stable Diffusion, Text-to-Speech, Text-to-Image, Voice Cloning, Language Translation, RAG, GraphRAG, Tools & Agents, CrewAI, LangChain

INTERESTS & HOBBIES:

- Programming, AI, Farming, Playing E-Games, Playing cricket.

CERTIFICATIONS:

Coursera (2019-2022):

- Python for Data Science, AI & Development
- Machine Learning Specialization(3-courses)
- Deep Learning Specialization(5-courses)
- Natural Processing Learning Specialization (4-courses)

Udemy (2023-2024):

- Complete Generative AI Course with Langchain and Huggingface
- LangGraph

Activeloop (2023-2024):

- Langchain & Vector Databases in Production
- Retrieval Augmented Generation for Production with LangChain &LlamaIndex

GreatLearning (2019-2020):

- Numpy
- Pandas
- Matplotlib
- Seaborn
- Spacy

Professional Projects:

FOCUSMATE: Designed an AI-driven solution to help autistic individuals overcome social anxiety and improve eye contact by leveraging pipelined LLMs, integration tools, and LangSmith for logging and monitoring, fostering meaningful social growth.

Chatbot: Developed an interactive chatbot for the company's official website using Retrieval-Augmented Generation (RAG) to deliver accurate and context-aware responses.

AI-Powered Resume Screening: Created a data-driven application for efficient resume screening using Google's Gemini AI, automating job-candidate alignment with machine learning for precise and scalable recruitment solutions.

MedicalAI: Developed a system combining machine learning for disease detection with generative AI to create a virtual medical assistant, enhancing diagnostic accuracy and patient interaction through Retrieval-Augmented Generation (RAG).

AWARDS & ACHIEVEMENTS:

- Ranked among the *"Top 3"* in the Batch.
- Received Laptop in the Prime Minister Laptop Scheme.
- Awarded a Merit-Based Scholarship by UETP.