Muhammad Musab

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Summary

AI Software Engineer experienced in full-stack web development and end-to-end deployment of machine learning models, specializing in computer vision, NLP, and RAG applications. Proficient in delivering scalable, real-world AI solutions and integrating intelligent systems into production software. Previously worked as an AI and Machine Learning Specialist at Neemiracle Technologies and Nexariza, where I contributed to the design and deployment of AI solutions in healthcare and business domains. In addition, served as a Web Developer at Cyberify, where I integrated machine learning models into web applications, bridging the gap between AI and production-ready software. Proficient in MLOps practices, ensuring smooth, efficient, and reproducible deployment, monitoring, and lifecycle management of machine learning models in production environments.

Skills

Python, Data Science, Machine Learning, Deep Learning, Computer Vision, NLP, Pandas, Matplotlib, NumPy, Scikit-Learn, TensorFlow, OpenCV, Tortoise, Fast API, SQL, HTML, CSS, Tailwind CSS, JavaScript, React, MlOps

Work Experience

Neemiracle Technologies and Nexariza
Intern   Sep 2024 – Oct 2024 and Sep 2024 – Oct 2024
- Collaborated on Python-based projects, a Computer Vision and NLP based project, providing support in integrating APIs with ML models for enhanced data processing capabilities.
- Assisted in statistical testing for data verification and validation to ensure accurate results in model outputs.
- Gained practical exposure to using TensorFlow and Neural Networks for developing product features aimed at bettering the user shopping experience.

Cyberify
On-site Nov 2024 – Jan 2025
- Collaborated on web development projects, and worked on web developments projects
- worked on a project that involved the development of a dynamic website, where I integrated a Large Language Model (LLM) using Fast API to enhance user interaction and functionality. Additionally, I implemented a robust SQL database system to securely store and manage customer data, ensuring efficient data retrieval and seamless integration with the website. This project allowed me to demonstrate my skills in full-stack development, API integration, and database management, while delivering a scale-able and user-friendly solution.

Freelancing   *Medical Chat-Bot*
Remote March 2025 – April 2025
- I developed a medical chatbot utilizing the Retrieval-Augmented Generation (RAG) architecture, with semantic embeddings stored in a Pinecone vector database to enable efficient and context-aware information retrieval.
- I deployed the system on a web platform using FastAPI for the backend and React for the frontend, enabling seamless and interactive user access.

Freelancing   *Emotion-Recognition*
Remote April 2025 – May 2025
- I developed an emotion recognition system that integrates YOLO for computer vision and transformer-based models for natural language processing. Additionally, I implemented a Retrieval-Augmented Generation (RAG) architecture to enhance emotional perception, aiming to create a more empathetic and satisfying user experience.
- I deployed the system on a web platform using FastAPI for the backend and React for the frontend, enabling seamless and interactive user access.

Projects

Full-Stack Medical LLM   *Python | Langchain | NLP | GenAI | Vector DB | FastAPI | SQL | React | MlOps*
- **Description:** A full-stack medical LLM designed for end-to-end healthcare application, including diagnosis and treatment planning
- **Uses:** HealthCare and Therapy, Clinical decision support and medical knowledge retrieval and reasoning.
- **Link:** https://github.com/Musab2077/midster-bot

Image-to-Text Translation   *Python | Machine Learning | Computer Vision | NLP | OpenCV | OCR | React | MlOps*
- **Description:** In this Project, you must select an English text image and it will translate it to three different languages. Urdu, German and Japanese are the languages.
- **Uses:** Real Time Translation for Travellers, Translation for Foreigners Students, Language Learning.
- **Link:** https://github.com/Musab2077/Image-to-Text-Translation

Education

NFC-IET, Pak-Arab Fertilizers Multan
BSAI