

Rehan Ahmed

AI/ML Engineer

Contact Details

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 Lahore, Pakistan

 GitHub/Rehan Ahmed

 LinkedIn/Rehan Ahmed

 Portfolio-Rehan-Ahmed

Skills

- Generative AI Data Analytics
- Natural Language Processing
- LLM Fine Tuning Embedding
- Research Agents creation
- ChatBot Development
- Human pose and hand sign tracking

Tools and Frame works

- LangChain, Autogen
- Gradio, Streamlit
- FastAPI, Flask
- Scikit-learn
- TensorFlow, Keras
- FFmpeg , MY SQL
- OpenCV ,MediaPipe, YOLO

Programing Languages

- Python
- C++ (Basic)
- SQL (Basic)
- HTML
- CSS

Certificates

- Introduction to Python Programming Languages
- Introduction to LLM Prompt
- Design in Vertex Ai

Interest

- Open-source contributions Model development
- Exploring emerging technologies like [AI, VR, etc.]
- Research in AI Field
- Neurons Study
- Neuro ns Sensing devices deployment

Professional Summary

AI/ML Engineer with nearly 1 years of industry experience in developing and deploying intelligent systems using cutting-edge technologies including MediaPipe, and chatbot development. Proven expertise in building real-time video processing pipelines, hand/body detection systems, and LLM-integrated applications. Passionate about AI automation and continuously exploring innovations in NLP.

Experience

AI Developer Logic Rack

January 2024 Bahawalpur, Pakistan (On-site)

- Developed a video analytics system using OpenCV + MediaPipe to detect and process body movement and gestures in real-time.
- Implemented YOLO-based human body detection integrated into custom
- Automated foreground/background separation and applied video blending high-efficiency video compression and transformation.
- Built and deployed multiple end-to-end AI workflows involving frame extraction, processing, and re-rendering with automated intelligence.
- Developed and deployed LLM-driven chatbots using Gradio, integrating LLaMA models for improved response accuracy and reduced operational complexities. Designed and implemented data visualization dashboards using Matplotlib and Seaborn to communicate insights from structured and unstructured data. Performed data preprocessing and image analysis tasks to improve accuracy in segmentation and object detection pipelines.
- Trained and fine-tuned machine learning models for diverse NLP and image classification projects, ensuring high performance and adaptability.
- Optimized prompts in LLaMA models to enhance performance in Retrieval-Augmented Generation (RAG) systems.
- Developed and fine-tuned chatbots using LLMs, improving overall accuracy through advanced prompt engineering.
- Customized prompts for various chatbot use cases to enhance user interactions and task-specific performance.
- Performed exploratory data analysis(EDA) on structured and unstructured datasets to uncover patterns and inform modeling decisions. Cleaned, preprocessed, and visualized large datasets using Pandas, NumPy, and Matplotlib to support data-driven strategies. Built and evaluated machine learning models for classification and regression tasks using Scikit-learn.

Projects

- Heart Disease Prediction
- Iris Flower Classification
- Airline Review Analysis
- E-Commerce Cosmetic Analysis
- Week A/B Testing
- Phishing Detection
- AI Chatbots
- Background Removal (BgRemove)

Education

Bachelor of Science in Computer Science (Graduate)

The Islamia University of Bahawalpur
July 2020 – July 2024