MOHAMMAD HUSSAM UL ISLAM

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SUMMARY

Agentic AI Specialist and Voice Agent Developer skilled in designing and deploying LLM, LMM based multi-agent systems, RAG pipelines, and voice interfaces using LangChain, Crew AI, and Pydantic, etc
Always Learning New Skills and Latest Tech (eg: AI Agent Development, RAG, MCP Servers)
Experienced in Mentoring and Teaching students, delivering webinars, and participating in hackathons.

SKILLS

Programming and Data: Python (OOP), Pandas, NumPy, SQL, Git, Jupyter, Flask, FastAPI, Supabase
AI and Machine Learning: Supervised/Unsupervised Learning, Neural Networks, NLP, Computer Vision
Libraries and Frameworks: TensorFlow, PyTorch, Hugging Face Transformers, Scikit-learn, LangChain
Prompt Engineering, Agent Frameworks and SDKs: PydanticAI, Agno, Crew AI, Lang Chain, AutoGen, Google Agent Development Kit (ADK), OpenAI Python SDK, Salesforce Agentforce.
Automation and Orchestration: N8N, Make.com, Relevance AI, Zapier, Langflow, AutoGPT.
Voice and Audio AI: ElevenLabs (TTS, STT, Voice Cloning), Google Realtime API, Open AI Realtime API (STS).
LLMs Local Deployment: GPT, Gemini, Claude, LLaMA, Deepseek, Custom LLM Locally (Ollama, LM Studio).
API's: Open AI Platform (Playground), Google (Vertex AI, AI Studio), Azure Openai, Azure AI Foundry.
Soft Skills: Collaboration, Agile methodologies, Technical, communication, Research interpretation.

EXPERIENCE

Data Science Trainee Intern - Bompix Mori IT Solutions Pvt. Ltd, Bangalore   *(Aug 2023 - Feb 2024)*
- Involved in design of TensorFlow forecasting pipeline for logistics, reducing error and improving efficiency.

Machine Learning Research Intern - Spartificial Innovations, Remote   *(Jan 2023 - May 2023)*
- **Supervised a team of 5** to build ML models using U-Net Architecture (from scratch) and ResNet-50 (Transfer Learning) for satellite imagery analysis achieving **91%** accuracy in building and shadow detection (F1 Score).
- Designed scalable image data pipelines (10K+ images).
- Built data pipelines, improved machine learning workflows and evaluated model performance with key metrics.

PROJECTS

Multiple New Projects created using Open AI SDK, Google ADK, Eleven Labs, Relevance AI, etc   *(2025)*
- Developed a Voice AI Agent for Customer Support using **Eleven Labs SDK**
- Architected and Developed a lead research and generation agent using **Relevance AI**
- Developed replica of OpenAI's **Operator**, leveraging BrowserUse and custom chain-of-thought prompts to enable autonomous task agent and research agent. Used PLAYWRIGHT (for reliable web interaction)
- **GrainSight AI - Grain Quality Prediction using Google ADK and gemini model (Improved prediction accuracy)**
  - It is a Extension of Grain Quality Predictor (logistic regression models and label encoders trained on a grain quality dataset) developed as an Academic Project.

Predicting CVD - RNN for cardiovascular disease risk assessment   *(May 2024 - Sep 2024)*
- Developed an RNN-based predictive model, enhancing healthcare decision-making.

Organic-Food-Traceability-Using-Blockchain - Academic Project   *(Mar 2024 - May 2024)*

StimulerVoiceX - AI-powered noise cancellation tool   *(Jun 2023 - Aug 2023)*
- Designed real-time noise reduction algorithm using TensorFlow/Keras

CollegeBot - Chatbot for College-Related Queries   *(Jun 2022 - Sep 2022)*
- Developed a chatbot using the Rasa framework to answer college-related queries efficiently.

EDUCATION

B.Tech in Artificial Intelligence   *(Jun 2020 - May 2024)*
G. H. Raisoni Institute of Engineering and Business Management
- **Key Coursework:** Python, Machine Learning, Deep Learning, Cloud Computing, NLP, Computer Vision, TensorFlow, PyTorch, Keras, Neural Network