

MOHAMMAD HUSSAM UL ISLAM

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SUMMARY

AI Specialist with expertise in **agentic systems**, **voice interfaces**, and **machine learning**, utilizing tools like **LangChain**, **Crew AI**, **Agno**, and **PydanticAI**. **Fast Learner**, **Always Learning New Skills** and **Latest Tech/Trends**. **Continuous learner** in **MCP**, **RAG**, **LLM deployment**, **Updated with Market Trend**.

SKILLS

Technical: Python (OOP), Pandas, NumPy, SQL, Git, Flask, FastAPI, Supabase, **Prompt Engineering**,

AI and Machine Learning: Supervised / Unsupervised Learning, Neural Networks, NLP, Computer Vision

Libraries and Frameworks: TensorFlow, PyTorch, Hugging Face Transformers, Scikit-learn

Gen AI: Retrieval Augmented Generation (**RAG**), Model Context Protocol (**MCP**), **Fine Tuneing**

Agent Frameworks: LangChain, PydanticAI, Agno, Crew AI, AutoGen,

SDKs: Google ADK, OpenAI SDK, Salesforce Agentforce, Eleven Labs SDK

Automation and Orchestration: N8N, Make.com, Relevance AI, Zapier, Langflow, AutoGPT

Voice and Audio AI: ElevenLabs (TTS, STT), Google/OpenAI **Realtime API (Speech to Speech)**

LLMs: GPT, Gemini, Claude, LLaMA, Deepseek, Fine Tune LLMs,

Local Deployment: Ollama, LM Studio

APIs: OpenAI Platform, Google (Vertex AI, AI Studio), Azure OpenAI, Azure AI Foundry

Soft Skills: Collaboration, Agile Methodologies, Communication, Critical Thinking, Problem Solving

EXPERIENCE

Data Science Trainee Intern - Bompix Mori IT Solutions Pvt. Ltd, Bangalore (Aug 2023 - Feb 2024)

- Designed a TensorFlow forecasting pipeline for logistics, reducing forecasting error.
- Optimized data preprocessing workflows using Pandas and NumPy for efficient data handling.

Machine Learning Research Intern - Spartificial Innovations, Remote (Jan 2023 - May 2023)

- Supervised a team of 5** to develop ML models (U-Net, ResNet-50) for satellite imagery, achieving 91% accuracy in building and shadow detection.
- Built scalable image data pipelines processing over 10,000 images and evaluated model performance.

PROJECTS

Voice AI Agent for Customer Support (April 2025)

- Developed a voice AI agent using **ElevenLabs SDK**

Lead Research and Generation Agent (March 2025)

- Created an autonomous agent with **Relevance AI**

GrainSight AI - Grain Quality Prediction (Jan 2025 - Feb 2025)

- Improved prediction accuracy using Google ADK and Gemini model. (Compared to [Grain Quality Predictor](#))

Web Rover - Autonomous Browser Agent (Operator Replica) (Oct 2024 - Dec 2024)

- Built a Browser automation agent using [BrowserUse](#) and custom prompts for reliable web interactions.

Predicting CVD - RNN for cardiovascular disease risk assessment (Jun 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 a real-time noise reduction algorithm, improving audio clarity.

CollegeBot - College Query Chatbot (Jun 2022 - Sep 2022)

- Built a chatbot with Rasa, handling 90% of college queries accurately using NLP.

EDUCATION

B.Tech in Artificial Intelligence (Jun 2020 - May 2024)

G. H. Raisoni Institute of Engineering and Business Management, Jalgaon

- Coursework:** Python, Machine Learning, Deep Learning, Cloud Computing, NLP, Computer Vision, TensorFlow, PyTorch, Keras, Neural Network
- Experienced Mentor, Hackathon Participant**
- Achievements:** Class Representative First Year, SIH Finalist,