# MD. HASAN IMON

## ASPIRING AI/ML ENGINEER


- emon.mlengineer@gmail.com
- Portfolio
- Linkedin
- GitHub
- WhatsApp


## SUMMARY


**Generative AI & Agentic AI Specialist** with expertise in **fine-tuning, multi-agent systems, RAG pipelines, and tool-augmented AI applications** using LangGraph and modern orchestration frameworks. Skilled in delivering **production-ready AI solutions** with advanced reasoning, planning, and intelligent tool usage. Also experienced in **Machine Learning and Deep Learning**, including **classification, regression, clustering, MLOps, NLP, transformers, and neural networks** for scalable real-world applications.


## EXPERIENCE

**XYZ**

Senior Data XYZ

*Lorem ipsum dolor sit amet, consectetur adipiscing elit.*
*Praesent molestie orci ac nulla dapibus, eget suscipit felis porta.*
*Suspendisse fringilla et libero nec commodo. In hac habitasse platea dictumst.*

## EDUCATION

**Bachelor of Computer Science & Engineering**

City University, Bangladesh (2022 - Present)

## CERTIFICATION

- ***Machine Learning Specialization*** *by Stanford University* (Coursera)
- ***Programming for Everybody*** *by University of Michigan (Coursera)*

## SKILLS

- ***Generative AI & Agentic AI:*** *Multi-Agent, Fine-Tuning(PEFT, LoRA, QLoRA), AgentOps, RAG Pipelines, HITL, Tool-Augmented AI, Memory-Augmented, Prompt Engineering*
- ***Machine Learning & Deep Learning:*** *Classification, Regression, Clustering, NLP, LLMs, Neural Networks (CNN, RNN, LSTM, GRU), Attention Mechanisms*
- ***Frameworks & Libraries:*** *LangChain, LangGraph, LlamaIndex, CrewAI, PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, NLTK, spaCy, Transformers*
- ***Databases:*** *MySQL, MongoDB, ChromaDB, Pinecone, Vector Databases*
- ***Frameworks & Libraries:*** *LangChain, LangGraph, LlamaIndex, CrewAI, PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, NLTK, spaCy, Transformers*
- ***Other Tools & Technologies:*** *DVC, Docker, CI/CD, FastAPI, FlaskPython, Git, GitHub, API Integration, Pandas, NumPy, Matplotlib, Seaborn*

## PROJECTS

**TrueWealth AI: Your AI-powered financial strategist** – GitHub

Multi-agent financial advisor with **query breakdown & multi-stage planning.**

- Developed a LangGraph-orchestrated multi-agent AI to provide professional, **context-aware financial insights from multiple sources** including PDFs and live news.
- Leveraged dynamic Tool Router and multi-source **reasoning for accurate and adaptive investment guidance.**
- Designed a user interface with seamless interaction to assist users in **real-time financial decision-making.**

**InformaTruth: AI-Driven News Authenticity Analyzer** – GitHub

Build a real-time fake news detection AI **using fine-tuned models.**

- Developed a multi-agent system leveraging **fine-tuned Roberta (classification) and Flan-T5 (explanation)** to detect misinformation from text, PDFs, and URLs.
- **context-aware predictions**, ensuring higher accuracy and reliability. Dynamic Tool Router and fallback agents to retrieve verified sources from DuckDuckGo and Wikipedia.
- Designed explainable outputs for users, improving trust and transparency in news evaluation.

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**AutoDocThinker: Intelligent Agentic Search Engine** – GitHub

Build an intelligent document QA system using **Agentic RAG**

- Developed a **multi-format AI system to ingest PDFs, DOCX, TXT, and URLs,** leveraging Agentic RAG for structured, context-aware answers.
- Implemented dynamic tool routing and fallback strategies to **ensure reliable information delivery.**
- Designed a user interface enabling seamless interaction with documents of any format.

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**Translatica: English to Spanish Translation** – GitHub

Developed a **Fine tuned(with PEFT + LoRA)** for high-fidelity AI literary translator

- Designed a modular system **separating tokenizer and model layers for optimized translation** and evaluation. **Fine-tuning for preserving tone and context**.
- Built a user-friendly Flask interface to provide smooth, real-time literary translations.

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**MediGenius: Medical AI Assistant** – GitHub

Build an AI-driven medical assistant with **multi-agent communication control.**

- Developed a multi-agent AI assistant **using RAG to deliver doctor-like, empathetic responses from medical PDFs and fallback web sources**.
- Integrated **short-term memory** and state-based reasoning for context-aware, multi-turn consultations.
- Designed an accessible interface to **reduce response time and improve medical guidance accuracy.**

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