



Md. Hasibul Hasan

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SUMMARY

AI Engineer with 3+ years of experience building and deploying intelligent systems across computer vision, NLP, generative AI, and multi-agent architectures. Proven track record in both research—developing a high-performing violence detection model—and real-world impact through scalable, end-to-end ML solutions.

SKILLS

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|---|--|
| Languages <ul style="list-style-type: none">Python, JavascriptGo | Cloud Platform <ul style="list-style-type: none">AWSGCP |
| Autonomous Agents & Multi-Agent Systems <ul style="list-style-type: none">Autonomous Agents, LLM Agents, AI AgentsAgent Orchestration, Multi-Agent SystemsLangChain, LangGraph, Agent Development KitRAG (Retrieval-Augmented Generation)Task Automation, Knowledge RetrievalMCP Servers, A2A ProtocolAPI & Vector DB Integration (contextual) | Core AI/ML Engineering & MLOps <ul style="list-style-type: none">Model Training, Evaluation & OptimizationScalable Inference, Real-time InferencePipeline Automation, MLOpsProduction Deployment, AI LifecycleAPI Integration, Application Deployment |
| Databases <ul style="list-style-type: none">PostgreSQL, MySQL, MongoDBPGvector, ChromaDB, FAISS, PineconeRedis, ElasticSearch | Data Engineering & Analysis <ul style="list-style-type: none">Data Cleaning, Preprocessing, TransformationFeature Engineering, Outlier DetectionExploratory Data Analysis (EDA)Data Visualization (Matplotlib, Seaborn)pandas, numpy |

PROJECTS

- Hadeeth Verification Multi-agent System**
- Designed a fact-checking system leveraging ADK(Agent Development Kit) to assess hadith authenticity using Quranic and Hadith knowledge.
 - Each agent specialized in a domain (text retrieval, semantic matching, reasoning, verifying narrator chain) contributing to a final verdict with explainable evidence aggregation.
 - Demonstrated advanced use of multi-agent orchestration, retrieval-augmented generation (RAG), and modular agent communication.
- Multiagent RAG: Study-Focused Knowledge Assistant**
- Built a multi-agent RAG system with LangChain + LangGraph to automate study-related tasks through agent collaboration.
 - Agents handled retrieval validation, search, flashcard creation, quizzing, study plans, and summarization.
 - Showcased skills in autonomous agent design and LLM-driven task orchestration.
- Real-time Violence Detection System (Thesis)**
- Developed a lightweight transformer-based model with Temporal Cross Attention Fusion and a memory-augmented module for detecting violence in CCTV footage.
 - Outperformed state-of-the-art methods on the UCF Crime dataset, achieving high accuracy in both binary and multi-class settings.
 - Optimized for real-time inference, showcasing skills in deep learning, video processing, and deployment.

AI-Powered Job Matching Platform

- Built a full-stack AI platform that matches job seekers and employers using vector similarity (KNN and cosine) over curated embeddings.
 - Integrated PostgreSQL + PGVector with backend APIs and a responsive frontend for candidates and recruiters.
 - Implemented smart filtering and transparent matching logic using contextual embeddings and scalable inference pipelines.
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EDUCATION **Bachelor of Science in, Computer Science and Engineering**

BRAC University, Dhaka, Bangladesh

CGPA: 3.45

Graduation Year: May, 2025

Higher Secondary Certificate (HSC)

Gopalpur Govt. College, Gopalpur, Tangail

GPA: 4.56

Year of Completion: 2020

Secondary School Certificate (SSC)

Suti V.M Pilot Model High School, Gopalpur, Tangail

GPA: 4.83

Year of Completion: 2017

REFERENCES **MD Ahsan Habib**

Embedded System Engineer, Maple IT Solutions.

Connection : Personal

<https://mapleitsolutions.net/>