

MIRZA MD. SHAFI UDDIN

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PROFESSIONAL SUMMARY

AI Engineer & Backend Developer with 1+ year of experience shipping LLM-powered applications, multi-agent systems, and production RAG pipelines with near-zero hallucination rates. Specialized in end-to-end AI product development — from agentic workflow automation (n8n, LangGraph, CrewAI) to scalable backend deployment (FastAPI, Docker, vector databases) — consistently turning AI research into reliable, production-ready business tools.

CORE SKILLS

- Languages:** Python, JavaScript, TypeScript, Java, SQL.
- AI & Agentic Engineering:** Multi-Agent Frameworks (LangGraph, CrewAI), Agentic AI, Prompt Engineering, LLM Integration (OpenAI, Gemini), RAG Pipelines, Hybrid Search (BM25 + Vector), Cross-Encoder Reranking, Hallucination Detection, LLM Evaluation, Embedding Models, Vector DBs (Pinecone, ChromaDB, Redis), MCP.
- ML, MLOps & Backend:** PyTorch, TensorFlow, Scikit-learn, SLM Fine-Tuning, Ragas, TruLens, FastAPI, n8n Workflow Automation, Node.js, RESTful APIs, WebSockets.
- DevOps, Cloud & Databases:** Docker, AWS, PostgreSQL, MongoDB, Firebase, Git, DigitalOcean.

WORK EXPERIENCE

Autofy Solution

AI Engineer & Backend Developer

Dhaka, Bangladesh

Jun 2026 – Present

- RAG Chatbot:** Designed and deployed a production-grade RAG chatbot with hybrid retrieval pipelines and a vector database, delivering hallucination-free, grounded customer responses 24/7.
- AI Agent:** Integrated an autonomous AI agent fallback via n8n — handles customer queries end-to-end when human agents are offline, achieving uninterrupted 24/7 support coverage.
- Automation:** Built Facebook Lead capture, WhatsApp, and Messenger automation pipelines with n8n, routing leads directly into CRM and cutting response time from hours to seconds.

Mevrik

AI Agent & LLM Intern

Dhaka, Bangladesh

Dec 2025 – Feb 2026

- Autonomous Agents:** Deployed 5+ autonomous AI agents with stateful logic and tool-calling to automate CX pipelines, eliminating 100% manual intervention across key business workflows.
- LLM Optimisation:** Reduced hallucination rate by ~40% and API token cost by 25% via prompt restructuring and context compression; significantly improved response grounding and model accuracy.
- AI Voice Agents:** Developed real-time AI voice agents integrated with Twilio and WebSockets, achieving sub-500ms end-to-end response latency for live conversational interactions.

KEY PROJECTS

Production RAG System with Hybrid Retrieval — Python, LangChain, Pinecone, FastAPI, Docker

[Code](#) | [Demo](#)

- Built an “Ask My Docs” system achieving 90%+ retrieval precision via BM25 + Vector Hybrid Search and Cross-Encoder Reranking; citation enforcement ensures 100% source-verifiable, hallucination-free responses.

Local SLM Benchmarking & Deployment Suite — Python, Ollama, Streamlit, Linux/Bash

[Code](#) | [Demo](#)

- Benchmarked Llama 3, Mistral, and Phi-3 across Q4/Q8 quantization levels; identified Phi-3 as optimal for CPU-only deployment with 2× lower memory vs Llama 3 at comparable accuracy.

LinkedIn Post Generator Agent — Python, LangChain, Google Gemini, Docker, Streamlit

[Code](#)

- Engineered a multilingual agentic LLM pipeline with multi-step prompt chaining and tone adaptation, reducing post drafting time by ~90%; deployed via CLI, Docker, and Streamlit UI.

Hospital Management Portal — MERN Stack, MiniLM Embeddings, Socket.io, JWT

[Code](#) | [Demo](#)

- Integrated a RAG-based AI chatbot using MiniLM embeddings within a full-stack hospital portal featuring role-based access (admin/doctor/patient), dashboard analytics, and real-time Socket.io communication.

EDUCATION

BRAC University

B.Sc. in Computer Science (CGPA: 3.22 / 4.00)

Dhaka, Bangladesh

June 2021 – Oct 2025

CERTIFICATIONS

- Associate AI Engineer for Developers** – DataCamp
- AI Engineering Bootcamp** (Agentic AI, Advanced RAG, Hybrid Search, SLM Fine-Tuning) – Ostad

Completed 2025

In Progress

LEADERSHIP & ACHIEVEMENTS

- Secretary, IT Dept.** – Robotics Club of BRAC University (Feb 2024 – Jun 2025): managed IT ops for 10+ events (200+ students); soccer robot project placed **3rd** at TechSpectra and **5th** at IUBAT competition.