Abdul Momen Miah

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PROFESSIONAL SUMMARY

AI Engineer with hands-on experience in building intelligent systems, focusing on AI agent development, Retrieval-Augmented Generation (RAG) pipelines, and end-to-end automation. Skilled in LLM fine-tuning, prompt engineering, and integrating vector databases like Chroma for efficient knowledge retrieval. Proficient in Python, Docker, and frameworks such as LangGraph and LlamaIndex. Adept at deploying scalable AI solutions on cloud infrastructure to enhance business performance and decision-making.

EXPERIENCE

- **BRAC Bank PLC** — Tejgaon, Dhaka
  Associate Manager, Process Automation and R&D — *Sep 2023 - Present*
  - **BracBankGPT - Internal Generative AI Chatbot**: Spearheaded the development and deployment of BracBankGPT, the first internal generative AI chatbot in the Bangladeshi banking sector - enhancing employee support, streamlining operations, and ensuring secure, regulation-compliant implementation using open-source LLM technologies.
  - **AI-Powered Email Classification System**: Enhanced communication efficiency by 50% and minimized manual query processing time.
  - **Email Automation System**: Designed and deployed an automated mailing system, integrating Excel data for various employee levels, resulting reducing manual email time by 60%, boosting productivity by 80%, and ensuring 100% data accuracy
  - **Robotic Process Automation**: Implemented RPA solutions to streamline reporting processes and automate customer profile updates, reducing task completion times by 60% and minimizing human error.
  - **Nextcloud App**: Led the deployment of a Nextcloud app, enhancing team collaboration and improving document management efficiency by 50%.

- **Technevo**
  Content Creator — *Apr 2023 - Present*
  - Producing high-quality technology-related content focusing on AI advancements, automation, and emerging technologies.
  - Engaging in technical writing, tutorials, and knowledge-sharing for AI and automation communities.

PROJECTS

- **RAG-Based AI Chatbot**: Engineered a Retrieval-Augmented Generation (RAG) AI chatbot using LlamaIndex and LangGraph, significantly improving information retrieval from unstructured documents and enhancing decision-making processes.
- **Fine-Tuning Llama 3.2**: Optimized Llama 3.2 using Unsloth AI for generating concise summaries of scientific papers, reducing summarization time by 70% while maintaining 95% accuracy in key information extraction.
- **Web Crawling Pipeline**: Designed a modular pipeline using Jina AI, BeautifulSoup, and Scrapy for scalable data collection from product and research sites.

ACHIEVEMENTS

- **Perplexity AI Business Fellow 2025**: Selected as a Perplexity AI Business Fellow, recognizing expertise in AI applications for business innovation and problem-solving.
- **Encode Club AI & GPT Bootcamp Q3 2024 Graduate**: Completed intensive training in AI model fine-tuning and deployment.

EDUCATION

- **BRAC University** — Dhaka, Bangladesh
  Bachelor of Science in Computer Science and Engineering; GPA: 3.55 — *Sep. 2018 – Jan. 2023*

Skills

- **Machine Learning & AI**: XGBoost, Transformer, CNN, RNN, LLM Fine-Tuning, NVIDIA CUDA

- **Model Explainability**: SHAP, LIME

- **AI & LLM Frameworks:**: TensorFlow, PyTorch, Hugging Face Transformers, OpenLLM, vLLM, LangGraph, LlamaIndex, Hugging Face smolagents

- **Software Development**: Python, Java, C++, Rust, Next.js, FastAPI, Cursor IDE

- **Data & Cloud**: PL/SQL, PostgreSQL, Azure AI Foundry, AWS

- **DevOps & Automation**: Git, Docker, RPA

- **Web Scraping**: BeautifulSoup, Scrapy, Jina AI

Additional Information

- **Languages:** English, Bangla