Md Al Amin Tokder

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Skills

- Python | RAG Systems | AI Agents | Model Fine-tuning | OCR | HTR | Keras | PyTorch | Node.js | OpenAI | Gemini | LangChain | LangGraph | Generative AI | Large Language Models (LLMs) | FastAPI I Django
- Machine Learning | Computer Vision | Transfer Learning | 3D CNN | REST APIs | Full-Stack Development
- Git | Azure | AWS | Linux | Competitive Programming | Problem Solving

Experience

Software Engineer (AI/ML)   **JB Connect Ltd**   *Dhaka, Bangladesh*   **08/2024 - Current**

- Built a **RAG-based product recommendation engine** for **Sevensix (Japan e-commerce)**, in personalized recommendations and significantly boosting customer engagement.
- Developed a **Leather Defect Detection Model (ViT)** for **FC Company Japan**, improving defect detection accuracy to **84%**
- Designed and deployed Generative AI, LLM, agentic AI, and RAG systems for enterprise applications, enhancing automation and decision-making. Engineered a **Medical Diagnosis Chatbot** with LangChain, LangGraph, and multi-agent architectures, enabling contextual reasoning with **89%** response accuracy on medical queries.
- Integrated OpenAI, Gemini, and LLaMA3 APIs into enterprise workflows, and deployments with cloud-native MLOps pipelines,

Machine Learning Engineer   **Devolved AI Ltd**   *Los Angeles, USA*   **06/2023 - 07/2024**

- Developed and optimized ML pipelines for training & inference, fine-tuning LLMs for the **Chatbot SRS Generator**
- Built **Luna, a decentralized AI chatbot** leveraging LLMs & Generative AI with **federated learning** with 85% query resolution accuracy.
- Developed an **AI-powered Prescription Handler with OCR/HTR + LLMs**, automating prescription digitization and improving efficiency.
- Applied LoRA fine-tuning and distributed ML techniques to enhance scalability, robustness, and cost-effectiveness.

Junior ML Engineer   **Devolved AI Ltd**   *Los Angeles USAh*   **02/2022 - 04/2023**

- Implemented enterprise solutions for **Prime's Content Experiment Platform** using Fastapi, MySQL, HTML, CSS, and JS.
- Designed and developed **scalable systems** for marketing optimization experiments.
- Gained early hands-on experience with **AI model training** and dataset-driven development.

Education

Bachelor of Science   **Rajshahi University of Engineering and Technology (RUET)**   *Bangladesh*   **11/2018 - 10/2022**

- Data Structure, Algorithms, Numerical Methods, Artificial Intelligence, Data Communication, Computer Graphics, Pattern Recognition, Discrete Mathematics, and Object-Oriented Programming.
- **CGPA: 3.63**

Projects

- **SRS Generator :** Developed an AI-powered chatbot system that auto-generates **Software Requirement Specifications (SRS)** using **fine-tuned LLMs** and the OpenAI API, streamlining documentation workflows.
- **Sevensix:** Designed and developed an award-winning **RAG-based product recommendation engine** for a leading Japanese e-commerce company, delivering personalized shopping experiences and increasing customer engagement.
- **Poker Analyzer:** Built a game analytics system that extracts poker statistics from **video streams, leveraging computer vision and ML** models for real-time strategy optimization.
- **Leather Defect Detector:** Engineered an AI-powered quality inspection system using **Vision Transformer (ViT) models**, deployed by FC Company Japan, improving leather defect detection accuracy and reducing manual inspection costs.

Publications

- **Garbage Classification:** Achieved high accuracy in waste classification using Transfer Learning with Parameter Tuning.**(Published: IEEE)**
- **BloodStein Hyperspectral Image Classification**: Using 3D CNN for advanced classification of hyperspectral medical images. **(Published: ICEEICT, IEEE Xplore)**

Awards

- **ICPC Preliminary Dhaka Site 2023- (522th out of 2600 team)** - 1st september,2023
- **North Bengal Startup Summit 2023 Startup** Idea contest Finalist **(4th)**
- Idea and Project showcasing Contest,RUET (**Selected for Final round 7th position)** - 1st september,2023