

Fahimul Alam

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Technologies

Languages & Tools: Python, JAVA, FastAPI, Git, JIRA, Docker, Redmine

Concepts: LLM, AI Agents, Computer Vision, OOP, Design Patterns, SCRUM

Libraries & Frameworks: LangChain, PyTorch, TensorFlow, OpenCV, Keras, Numpy, Pandas, Seaborn

Experience

Trainee Software Engineer (AI), BJIT Academy – Baridhara, Dhaka November 2024 – February 2025

- Delivered projects focused on Computer Vision and LLM-based solutions.
- Collaborated in Scrum teams using Jira for project management and Git for version control.

Projects

Pixels: AI-Powered Conversational based Photo-Gallery github/memory-bot

- An AI-driven personalized photo gallery application to revolutionize how we interact with our gallery. Implemented a smart contextual text-based and image-based search through an AI-powered Chat-bot using Multimodal-RAG.
- Tools Used: Python, OpenAI-CLIP, Gemini AI Service, Qdrant Vector Database

BrainTumorNet: A Novel CNN Approach for Tumor Classification (Thesis) github/tumor-classification

- Compiled a brain tumor image dataset and developed a dual-branch CNN incorporating a squeeze-and-excite attention mechanism. Achieved an 99.2% accuracy in multi-class tumor classification.
- Tools Used: Python, TensorFlow, Keras, Matplotlib, Seaborn, Numpy, Pandas

SmileNet: VGG-based Web APP for Smile Classification github/smile-classifier

- Developed a VGG-like CNN Architecture for binary smile classification. Developed a FastAPI-based web app and containerized the entire project using Docker.
- Tools Used: Python, FastAPI, TensorFlow, Keras, Docker

AgentX: Autonomous Conversational Agent for SaaS and Web Apps

- Developed a Conversational Agent that interacts with users and performs automated actions to enhance user experience. Explored and integrated Agentic-AI principles for seamless deployment in SaaS, software, and web applications.

Education

Chittagong University of Engineering & Technology, BSc in Computer Science & Engineering February 2019 – July 2024

Notre Dame College, HSC June 2016 – May 2018

Campus Leadership Experience

President, CUET Computer Club, CUET August 2023 – September 2024

- Organized CODE Storm 1.0—the first-ever national-level Inter-University Programming Contest (IUPC) organized by CUET Computer Club.
- Collaborated and led multiple seminars/workshops featuring international professionals.