SYEDA AUNANYA MAHMUD

📞 +8801980467875 ✉ aunanya.official@gmail.com ⬤ github.com/syeda434am

in linkedin.com/in/syeda434 Ⓚ kaggle.com/aunanya875 🏠 Khilgaon, Dhaka, Bangladesh

SUMMARY

Enthusiastic B.Sc graduate with strong Data Analysis & AI/ML research experience along with Cybersecurity knowledge-base. Eager to leverage analytical and problem-solving skills, coupled with a collaborative spirit, to contribute significantly.

IELTS Score (Overall): 7.0

PROFESSIONAL EXPERIENCE

Graduate AI/ML Research Engineer

Kounsel | **San Francisco, California, US** (Remote)

06/2024 - 01/2025

Responsibilities:

- Contributed to **API** development & deployment, **Synthetic Data** generation, **VectorDB** management and system integration.
- Researched **AI-trends**, pre-trained **LLMs (BERT, T5)** and fine-tuned **GenAI models** for core project, optimizing model performance for business needs.
- Tested and enhanced system performance, integrated feedback, trained teams and effectively communicated technical concepts to non-technical teams and stakeholders.

Reward: 20% salary raise & offered after-internship position

EDUCATION

Master of Science in Information Technology

Jahangirnagar University | **Savar Upazila, Dhaka**

07/2023 - Present | |**CGPA**: Running (4.00/4.00, till 3rd semester)

Bachelor of Science in Information Technology

University of Information Technology & Sciences | **Baridhara, Dhaka**

01/2019 - 02/2023 | **CGPA**: 3.87/4.00

SKILLS

- **Programming Language**: Python, C & C++.
- **Web Development**: HTML, CSS & JS.
- **Development Fundamentals**: Data Structure, OOP, Design Patterns, Agile Development, SDLC, Rest API, Streamlit, Fast API.
- **AI/ML & Data**: ML, DL, NLP/NLI, Generative AI, Stable Diffusion, Agentic AI, Federated Learning, Exploratory Data Analysis.
- **AI/ML Frameworks**: Tensorflow, PyTorch, Scikit-learn, Keras, LangChain, Hugging Face, Pandas & YOLO.
- **Tools**: Ollama API, OpenAI APIs, POE, GRok, GCP, Milvus, FAISS, Mongo, MySQL, Web Scraper, Docker, Jira, Confluence.
- **Version Control**: Github, Bitbucket.
- **Soft Skills**: Strong coding and analytical skills, creative and solution-driven mindset, proactive in tackling challenges & works well both in teams and independently.

REFERENCE

Sk. Tanzir Mehedi

Ph.D. Researcher, Queensland University of Technology (QUT), Australia

Relation: Supervisor | **E-mail**: s.tanzir@qut.edu.au

PROJECTS

AI Agent for Automated Job Application

02/2025 | **Github**

- Leveraged web automation, CV parsing, AI-based form filling and cover-letter writing to automate the job application process on job platforms

Baymax : AI Chatbot for Medicare

01/2025 | **Github**

- Used MedLlama2 model with LangChain to create medical document retrieval and query assistant

Artistic AI Studio : AI Photoshop & Design Tool

01/2024 - 04/2024 | **Github**

- Used neural style transfer, object detection, and image processing to transform photos and videos into stunning artistic pieces.

Unified DeepFake Detection System

07/2023 - 10/2023 | **Github**

- Used a TensorFlow Xception model for image analysis and LSTM for temporal video processing.

PUBLICATION

Privacy-Preserving Federated Learning-Based Intrusion Detection Technique for Cyber-Physical Systems

Mathematics 2024 (MDPI)

Mahmud, S.A.; Islam, N.; Islam, Z.; Rahman, Z.; Mehedi, S.T.

10/2024 | **DOI**: doi.org/10.3390/math12203194

- Developed a federated learning-based intrusion detection system for IoT networks by utilizing FedAvg algorithm & 5 deep learning architectures, ensuring data privacy and achieving over 90% accuracy.

COMPETITIONS

AI/ML Competitions

Issuing Organization: **Kaggle** | **Profile:** **aunanya875**

Kaggle contributor solving AI vs actual image detection, NLI, NLP, and image classification challenges.

Cyber Drill Competitions

Issuing Organization: BGD e-GOV CIRT

Team: UITS (2nd) | 08/2021

Team: UITS_IT_ROOTERS (5th) | 08/2022