

SYED SAMIN SADAF

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OBJECTIVE

Passionate about technology and driven to tackle real-world challenges with innovation and critical thinking.

EDUCATION

B.Sc. in Software Engineering

2021 – Present

Islamic University of Technology (IUT)

CGPA: **3.94 out of 4.00**

Higher Secondary Certificate (HSC)

2020

Notre Dame College, Dhaka

GPA: **5.00 out of 5.00**

Secondary School Certificate (SSC)

2018

Motijheel Government Boys' High School, Dhaka

GPA: **5.00 out of 5.00**

EXPERIENCE

AI Engineer Intern

Kernel International Ltd. , May 2024 – September 2024

- Developed a **Retrieval-Augmented Generation (RAG)** pipeline for medical study support, integrating LLMs like GPT-4 and LLAMA with vector databases (MongoDB, ChromaDB).
- Built an AI-driven chatbot to generate and evaluate medical questions using **LangChain** and prompt engineering.

PUBLICATIONS

- TYMBERT: Tiny Yet Mighty – Fine-Tuned and Compressed TinyBERT for High-Accuracy, Low-Resource NLP**

2nd International Conference on Next-Generation Computing, IoT and Machine Learning (NCIM 2025)

- Enhanced the performance of TinyBERT through advanced knowledge distillation techniques.
- Applied quantization methods to reduce model size while maintaining accuracy.
- Conducted extensive benchmarking against other BERT variants to validate effectiveness.
- Full paper can be read here [\[ResearchGate\]](#)

- A Survey to Understand the experience of ChatGPT Usage among Engineering University Students in Bangladesh.**

Technium Journal (2023)

- Contributed to designing the survey and collecting participant data
- Conducted analysis of user responses to identify key insights
- Full paper can be found here [\[Academia.edu\]](#)

PROJECTS

- **The Red Owl - Connect IUTians Worldwide**

[GitHub Link](#)

Node.js, Express.js, MongoDB, React.js

Built a platform to connect teachers, students, and alumni of IUT:

- Developed user profiles, authentication, and email verification.
- Implemented search and advanced filters for profiles, events, and blogs.

- **CollaborativeChatGPT**

[GitHub Link](#)

FastAPI, Next.js, MongoDB

Created a tool for collaborative interaction with ChatGPT:

- Added error categorization and response correction.
- Integrated ChatGPT API for iterative feedback and model improvement.

- **Rong- An Event Management Website**

[GitHub Link](#)

React.js, Node.js, Express.js, MongoDB

Worked on a 3-person team to build an event management website:

- Built customer profile along with email verification, booking tickets
- Customer review section
- Made the payment gateway using the Stripe API

SKILLS

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|------------------------------|---|
| Programming Languages | C, C++, JavaScript, Java, C#, Python |
| Backend Development | Node.js, Express.js, Django, FastAPI |
| Machine Learning | Numpy, sci-kit-learn, Tensorflow, PyTorch |
| Data Processing | Pandas, Numpy, Unstructured Library |
| Other tools | Git, Docker, Langchain, Ollama |

EXTRA-CURRICULAR ACTIVITIES

- **Competitive Programming:** Participated in contests on [Codeforces](#) (highest rating: 1070) and solved problems on [LeetCode](#).
- **Capture The Flag (CTF):** Ranked 5th in CodeRush 1.0 IUT intra-CTF and competed in various inter-university and online CTF contests.