Sameer Mahmud, B.Sc.

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Education:

B.Sc in Computer Science and Engineering   *Dhaka, Bangladesh*
University of Liberal Arts Bangladesh   *Feb 2020 – Feb 2025*

Research Interest:

Natural Language Processing (NLP) and Large Language Models (LLMs) form the cornerstone of my research focus. I am particularly interested in developing robust and efficient NLP models that enhance secure communication and automated threat analysis. My work explores adversarial robustness in LLMs, ethical AI deployment, and real-world applications of transformer-based architectures such as BERT, GPT, and Llama. I aim to leverage frameworks like TensorFlow, PyTorch, and Hugging Face's Transformers to drive innovation in AI-driven cybersecurity solutions.

Relevant Work Experience:

Undergraduate Teaching Assistant   *Jan 2023 – Mar 2024*
(University of Liberal Arts Bangladesh)

- Assisted in teaching core computer science courses (CSE202 – Object Oriented Programming Lab, CSE208 – Data Structure Lab, CSE306 – Algorithm Lab, CSE304 – Database Lab), ensuring students' comprehension of programming concepts.
- Facilitated lab sessions, providing practical guidance and fostering problem-solving skills.

Chairperson and Webmaster   *Jan 2023 – Jan 2024*
(University of Liberal Arts Bangladesh)

- Directed branch activities, organized student programs and enhanced collaboration among members.
- Built and maintained the IEEE ULAB Student Branch website, significantly improving user experience and engagement.

Junior Web Developer   *Jan 2023 – Dec 2023*
(DonorSite)

- Tasked with Developing and maintaining web applications using ReachJS and TailwindCSS, ensuring a responsive and user-friendly interface.
- Collaborated with cross-functional teams to implement new features and improve existing functionalities.
- Optimized performance and streamlined workflows, enhancing the overall efficiency of the web platform.

Good Effort   *Jan 2021 – Dec 2022*
(Senior WordPress Developer & Social Media Manager)

- Built websites such as Sheikh4waterboard.com, Goodeffort.org, and Desirejewelers.com.
- Proficient in PHP, HTML, JavaScript, child theme creation, Seo, website optimization and security.

Research Experience/Projects:

Undergraduate Research – JailBreakLLM: An Effective LLaMa Model Designed Specifically to   *Apr 2024 – Feb 2025*
Jailbreak OpenAI GPT-4o
(University of Liberal Arts Bangladesh)

- Fine-tuned LLaMa 3.1 8B to generate prompts that effectively jailbreak GPT-4o.
- Achieved a High Success Rate (ASR) of 85% to showcase how a small model can bypass a more advanced system.
- Provided insights into jailbreak techniques, emphasizing the need for continuous evaluation of LLM security.

Research – Machine Learning for Drone-Assisted Flood Rescue (Title not selected yet)   *Feb 2025 - ongoing*
(Ongoing Research)

- Developing a machine learning model to identify and locate individuals trapped during floods using drone-captured imagery.
- Utilizing deep learning techniques such as CNNs and Transformers to enhance image clarity for better victim detection.
- Implementing computer vision algorithms for automated detection and tracking of stranded individuals in disaster-stricken areas.

Technical Skills:

Programming: Python, C++, Java, C#.

Machine Learning & AI: TensorFlow, Keras, Scikit-learn, SciPy.

Web & Database: JavaScript, HTML, CSS, TailwindCSS, ReactJS, MySQL, PostgreSQL, WordPress, Git.

Miscellaneous: LaTex, MS Office, Adobe Photoshop, After Effects.

Awards & Leadership:

Ranked 5th in IEEE Region 10 competition   *Mar 2023*

Ranked 1st in IEEE International Conference on Website Design and Implementation   *Dec 2023*

References:

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Bulipe Tech
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University of Liberal Arts Bangladesh
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