Sajin Mahmud Arpon

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PROFILE

Aspiring Machine Learning Engineer with hands-on experience in supervised and unsupervised models, computer vision pipelines, and data mining techniques—driven to build scalable and intelligent systems. Highly proficient in Natural Language Processing (NLP), with practical experience developing intelligent solutions for text analysis and prediction tasks. I possess an intermediate understanding of web development and the .NET framework, along with strong problem-solving skills and a solid grasp of advanced techniques such as deep learning and model optimization. I have demonstrated the ability to collaborate effectively on GitHub-hosted projects and contribute to AI-driven applications. I am seeking a role where I can apply my skills in machine learning, NLP, and full-stack development to create innovative, real-world solutions.

EDUCATION

American International University-Bangladesh *Dhaka, Bangladesh*

Bachelor of Engineering in Computer Science and Engineering 2022 – 2025

- On Going Semester: Fall, 2025-2026 (Current CGPA- 3.52) (Expected Graduation January 2026)

Abdul Kadir Mollah City College, Narsingdi *Narsingdi, Dhaka*

Higher Secondary in Science 2020

SKILLS

Technical: C, C++, C#, Java, Python, HTML, CSS, PHP, MySQL, MSSQL, OOP, Tensorflow, Keras, Seaborn, Machine Learning, NLP.

Tools: VS Code, Visual Studio, Google Colab, RStudio, Overleaf, LaTeX, Git, GitHub, Arduino IDE.

PROJECT EXPERIENCE

Applying Zero-Shot for Combating Misinformation, Academic Project 05/2025-06/2025

- Implemented a zero-shot fake news detection using multiple transformer models and ensemble them for better performance.
- Utilized DeBERTa, BART, ModernBERT, and CE-DeBERTa for modeling; applied PyTextRank and spaCy for text summarization.

Bangladesh Ethnic Language Recognition, Personal Project 08/2025-09/2025

- CNN based system to recognize and classify Ethnic language, contributing to digital preservation of linguistic diversity and cultural heritage.
- Character based tokenization was applied for preprocessing and then for the classification CNN model was built with 1D convolution.

NLP-Based Sentiment and Topic Analysis of Anime Reviews, Academic Project 12/2024-01/2025

- Revealed genre-specific emotional trends and audience engagement patterns through statistical modeling and text mining techniques.
- Applied R language with LDA topic modeling and NRC sentiment lexicon, incorporating a wide range of preprocessing techniques for text analysis.

Library Management Web Application, Academic Project 06/2024-07/2024

- Developed a full-stack library management system with user authentication, book tracking, due date monitoring, reservation features, and an admin dashboard for managing borrow history and catalog updates.
- Built a full-stack web application using PHP, HTML, CSS, and MySQL with user authentication, responsive design, and database-driven features

Anyone for Tennis, Personal Project 11/2024-12/2024

- Developed a C# Windows Forms application for tennis club management, integrating coach, schedule, and membership databases with role-based access, real-time scheduling, profile editing, and member enrollment features.
- Built using C#, Windows Forms, .NET Framework, SQL Server, and Visual Studio.