

Adiba Amin

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Professional Summary

Computer Science graduate specializing in software engineering and development. Skilled in designing, coding, and deploying scalable applications with expertise in algorithms, data structures, and machine learning. Adept at building reliable, efficient, and user-focused software products with practical project and research experience.

Education

B.Sc. in Computer Science and Engineering
Ahsanullah University of Science and Technology (AUST), Dhaka
CGPA: 3.691 / 4.00 | 2021 – 2025

Higher Secondary Certificate (HSC)
Scholars School and College, Dhaka
GPA: 5.00 / 5.00 | 2020

Secondary School Certificate (SSC)
Scholars School and College, Dhaka
GPA: 5.00 / 5.00 | 2018

Technical Skills

Languages: Java, Python, C, C++

Web Development: HTML5, CSS, JavaScript, Bootstrap

Frameworks & Libraries: TensorFlow, Java Swing, NLP Libraries

Databases: MySQL

Machine Learning: Linear Regression, LSTM, Hidden Markov Models, Decision Trees, Random Forest, Naive Bayes, Gradient Boosting, KNN, SVM, Neural Networks

Tools: Git, GitHub, VS Code

Soft Skills: Public Speaking, Debating, Team Collaboration

Experience & Research

Research Project – Genome Sequence Analysis | AUST | Jan 2024 – Present

- Conducting genomic sequence classification, data cleaning, and model evaluation using Python and ML frameworks.
- Preparing results for journal publication (data currently withheld).

Research Project – Postpartum Depression Analysis | AUST | Jan 2023 – Dec 2023

- Applied Decision Tree, Random Forest, Naive Bayes, SVM, and Neural Networks to analyze postpartum depression risk factors.
 - Visualized and interpreted medical datasets using Python libraries (NumPy, Pandas, Matplotlib).
- GitHub: <https://github.com/RafiuAlam/Postpartum-Depression---ML-Projects>

Projects

Bangla Sentiment Analysis | 2023

- Built NLP pipeline with CNN for Bangla text classification including preprocessing, embeddings, and tuning.
 - Achieved high accuracy using deep learning models with TensorFlow.
- GitHub: <https://github.com/AdibaAmin/Softcom-project-1>

Online Travel Agency Portal | 2022

- Developed a responsive travel booking website with HTML5, CSS, JavaScript, and Bootstrap.
- Implemented client-side validation and dynamic content rendering.

GitHub: <https://github.com/berserk377/Online-Travel-Agency-project>

Asteroid Field Simulation | 2022

- Built interactive 3D asteroid field simulator with Three.js, WebGL, and GLSL shaders.
- Designed keyboard-controlled spaceship for enhanced user interaction.

GitHub: <https://github.com/AdibaAmin/An-Asteroid-Field>

Certifications

Python with Machine Learning – Creative IT Institute | May 2024 – Dec 2024 | Grade A

GitHub: https://github.com/AdibaAmin/Certificates/blob/main/CreativeIT_certificate.pdf

Co-Curricular Activities

- Head of Logistics, AUST Programming and Informatics Club.
- Speaker: Presented on Artificial Intelligence in Medical Sciences at the 52nd Annual National Conference of the Ophthalmological Society of Bangladesh (BCFCC).

GitHub: https://github.com/AdibaAmin/Certificates/blob/main/Certificate_Adiba.pdf

Reference

Prof. Dr. Kazi A Kalpoma

Professor and Former Head, Dept. of CSE, AUST | Senior Member, IEEE

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Profile: https://aust.edu/cse/faculty_member/prof_dr_kazi_a_kalpoma