



Syeda Samia Sultana

01980897373

✉ aurinsamia@gmail.com

🐙 GitHub

🌐 LinkedIn

SKILLS

Languages: Bengali, English

Developer Tools: HTML, CSS, JavaScript

ML/AI Tools: TensorFlow, Colab, Scikit-learn, Keras

Programming Languages: C, Python

Databases: MySQL, Oracle, Xamp

Soft Skills: Problem Solving, Communication

MACHINE-LEARNING RELATED WORKS

• Enhancing Heatwave Predictability in Bangladesh through Deep Learning Approaches

Undergraduate Thesis. Github-Link

- Language: Python IDE: Colab
- Deep learning models like LSTM, GRU, Conv1D and Hybrid models utilizing historical weather data from districts of Bangladesh show promise in predicting heatwaves, with attention-based Conv1D+GRU demonstrating superior accuracy for 7-day forecasts of maximum temperature and humidity.

• Deep Learning-Based Multivariate Forecasting of Rainfall, Temperature, and Humidity Patterns

CSE4238 SoftComputingLab. Github-Link

- Language: Python IDE: Colab
- This project employs a deep learning approach to enhance the precision of forecasting rainfall, temperature, and humidity patterns in Bangladesh, aiming to predict future climate trends in the region. The used models are LSTM, GRU and Bi-LSTM.

• Diabetes Prediction: A Comprehensive Study Integrating Deep Learning and Machine Learning Approaches

CSE 4214 PatternRecognitionLab. Link

- Language: Python IDE: Colab
- Machine learning and deep learning methods are increasingly used to predict diabetes, aiming to improve early detection and management. A study utilizing the Pima Indian dataset evaluated algorithms like SVM, MLP, Random Forest, KNN, and Decision Tree, with MLP achieving the highest accuracy of 85%. The research highlights the importance of machine learning in healthcare and advocates ongoing improvements in diabetes prediction algorithms.

PROJECTS

• Easy Travel

A website for a travel agency. Github-Link

- HTML, CSS and PHP

• Bus Management System

A management system to store passenger information, ticket purchases, manage driver salaries and record journey specifics.

- MySQL

PARTICIPATIONS

- | | | |
|---------------------------------------|------------------|------|
| • National Girls' Programming Contest | Certificate-Link | 2022 |
| • National Girls' Programming Contest | Certificate-Link | 2021 |
| • Cefalo Code Fiesta 2022 | Certificate-Link | 2022 |
| • Intra AUST Programming Contest | Certificate-Link | 2021 |

EDUCATION

- | | |
|---|-------------|
| • Ahsanullah University of Science and Technology | 2024 |
| <i>B.Sc. in Computer Science and Engineering</i> | CGPA: 3.779 |
| • Rajuk Uttara Model College | 2019 |
| <i>HSC</i> | GPA 5.00 |
| • Monipur Uchcha Vidyalaya and College | 2017 |
| <i>SSC</i> | GPA 5.00 |

REFERENCES

Dr. Md. Shahriar Mahbub

Professor, Department of CSE, Ahsanullah University of Science and Technology

Email: shahriar.cse@aust.edu