

SATABDI DAS

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EDUCATION

Shahjalal University of Science and Technology

2017 - 2021

B.Sc. in Computer Science and Engineering

CGPA: **3.82**/4.00 | Rank: 5th in a class of 107 students, with distinction

Thesis: *A Remote Sensing Approach: Can We Predict Where to Build The Next Road?*

Advisors: [Sabir Ismail](#) (Software Engineer, Google) and [Summit Haque](#) (Assistant Professor, SUST)

RESEARCH EXPERIENCE

- Assessing Correlation Between Night-Time Light and Road Infrastructure. The purpose of this research is to determine whether or not night-time light (NTL) data can be used to measure the spatial road infrastructure development in real-time.
- Road Infrastructure prediction using Google day-time Satellite Imagery, Google Maps and Open-StreetMap data. Machine learning methods such as XGBoost, AdaBoost, and Random forest, as well as a deep learning model called MLP-CNN, were used to predict road infrastructure.

PUBLICATION

- **Satabdi Das**, Sharmin Ahmed, Summit Haque, Sabir Ismail. Assessing correlation between night-timelight and road infrastructure: An empirical study. In 11th International Conference on Geographic Information Science. (GIScience, 2021 [G](#))
- Sharmin Ahmed, **Satabdi Das**, Summit Haque, Sabir Ismail. Can We Predict Where to Build The Next Road? In 8th International Conference on Networking, Systems and Security. (Poster accepted at 8th NSysS, 2021 [G](#))

ACADEMIC PROJECTS

Movie Recommendation System

The system recommends movies to users by analyzing their preferences and reviews collected from IMDB data. Accuracy has been measured and compared for different recommender models such as collaborative filtering, KNN, correlation based recommendation and SVD matrix factorization.

Humor Level Detection

A machine learning based classification model has been built to detect humor level of a sentence using Humicroedit data. BERT, LSTM, Naive-Bayes has been used for detecting the humor and accuracy has been compared among these models to find out the best one.

Chat Application using Socket Programming

A client-server application built by using Java Socket programming where multiple clients can connect to a server, see the active clients and chat. Server side has been built with Node.js.

Online Hostel Management System

A Laravel based hostel management website where a student can check the seat availability, request for seat, check payment status, issue any complaints to respective authority. Administrators can publish notice, resolve and update the complaints status in the website. MySQL database has been used.

Thesis/Project Distribution System

Thesis/Project Distribution System is a Django web project where student can submit their preference supervisors list to authorities. Then, authorities can assign supervisor to student groups based on CGPA. Authorities can publish notice, manage the preference list based on thesis topic criteria.

Diagram Builder Application

An android application to build UML diagrams. The diagram can be exported as PDF or JPG file format. Users can also edit previously saved diagrams.

WORK EXPERIENCE

Coding Instructor, Kids Advanced Technology Club

December, 2020 - Present

Part-Time Job at Kelowna, BC, Canada

Taught high school students Block coding, interactive problem solving with Python programming, game development.

Coding Content Creator, CodexPro

July, 2021 - Present

Part-Time Job at Germany

Prepared twenty class contents on the Scratch and Python programming. Organized an analytical competition named MindSprak as a team lead at national levels of Bangladesh.

ACHIEVEMENTS

University Merit Scholarship

Shahjalal University of Science and Technology

Digital Sylhet City Idea Hackathon 2019

2nd Runners up | Presented Idea: Digital health care system for least developed countries.

Bangladesh Astro Olympiad 2018

5th place, Sylhet Regional

EXTRA-CURRICULAR

- Mentee, **Microsoft's Technical Resilience Mentorship Program 2021** [!\[\]\(b5e377c2bbbc6e867b430ea873fb0553_img.jpg\)](#)
- Conference Management Team, **1st International Conference on Bangla Speech and Language Processing (ICBSLP, 2018)** [!\[\]\(d9d46f6c0b63c3065512ba7a6ece9cf5_img.jpg\)](#)
- Academic Team member, **Children Science Congress, 2017** [!\[\]\(e0188dd31b8ea5a27c0180ec5e972d61_img.jpg\)](#)
- Contest Management Team, **Sylhet regional of National High School Programming Contest, 2017** [!\[\]\(e4633c368a16c2cdaa52b90e70ea3e9d_img.jpg\)](#)
- Event Management Team, **SUST CSE Carnival, 2017** [!\[\]\(9a8ae46adef88f0bacadc5a1ad004089_img.jpg\)](#)

MOOCS PARTICIPATED

Machine Learning (Coursera), Deep Learning (Coursera), Data Analysis with Python (Coursera)

PROGRAMMING CONTEST

ACM-ICPC Asia Dhaka Regional Contest, 2017 | SUST Inter University Programming Contest, 2017 | National Girls' Programming Contest, 2017 | NSU Inter University Girls' Programming Contest, 2018 | National Girls' Programming Contest, 2018

TECHNICAL STRENGTHS

Languages	C, C++, Java, Python, HTML, CSS, PHP, SQL, Assembly Language
Software & Tools	MS Office, Excel, Powerpoint, LaTeX
Operating Systems	Windows, Linux
Frameworks	Django, Laravel
Machine Learning Library	Keras