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

Undergraduate Thesis I   *March, 2020 - January 2021*
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.

Undergraduate Thesis II   *January, 2021 - December, 2021*
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 🔗)

- 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 🔗)

WORK EXPERIENCE

Lecturer, University of Asia Pacific 🔗   *December, 2021 - Present*
Courses Conducting: Software Engineering, Computer Networking, Introduction to Computer Science and Programming Methodology.

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.

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.

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.
Tools: Keras, TensorFlow

Online Hostel Management System
A 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.
Tools: Laravel, MySQL

Thesis/Project Distribution System
A 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.
Tools: Django, SQLite

SCHOLARSHIP

University Merit Scholarship *2017 - 2021*
Shahjalal University of Science and Technology

AWARDS

Digital Sylhet City Idea Hackathon 2019
2nd Runners up | Presented Idea: Digital heath care system for the least developed countries.

Online Webinar Course on "Network Security" 2021 🔗
Ranked Top **9%** out of 400+ participants

Bangladesh Astro Olympiad 2018
5th place, Sylhet Regional

MOOCS PARTICIAPATED

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

PROGRAMMING CONTEST

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

EXTRA-CURRICULAR

- Organizing and Judging Panel, **Impact of ICT during Covid-19 (Idea Competition of University of Asia Pacific 2022)**
- Mentee, **Microsoft's Technical Resilience Mentorship Program 2021** 🔗
- Conference Management Team, **1st International Conference on Bangla Speech and Language Processing (ICBSLP, 2018)** 🔗

- Academic Team member, **Children Science Congress, 2017** 🔗

- Contest Management Team, **Sylhet regional of National High School Programming Contest, 2017** 🔗

- Event Management Team, **SUST CSE Carnival, 2017** 🔗

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, TensorFlow

REFERENCES

- Dr. Farida Chowdhury, Professor
  Department of CSE, Shahjalal University of Science and Technology
  Email: farida-cse@sust.edu

- Dr. Md Sadek Ferdous, Associate Professor
  Department of CSE, BRAC University
  Email: sadek.ferdous@bracu.ac.bd