Nazmus Sakib

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RESEARCH INTEREST

Applied Machine Learning, Human Computer Interaction, Software Engineering

EDUCATION AND CERTIFICATIONS

Bangladesh University of Engineering and Technology (BUET) Dhaka
Bachelor of Science in Computer Science and Engineering *Feb 2017 – May 2022*
- **CGPA: 3.72/4.00**
- **Major CGPA: 3.77/4.00**

RESEARCH EXPERIENCE

CORONOSIS May 2020 - January 2021
Supervisor: Dr. A. B. M. Alim Al Islam (BUET)
Status: Accepted for publication in **ACM COMPASS-2022** [PDF] [Video Presentation]

- In this project, we developed an integrated dashboard for the covid-19 pandemic where we performed several predictions (next-day predictions, when would we keep corona under control, country-wise affected and dead, etc.) using epidemiology models.
- We factored in lockdown, social distancing, and contact structures for developing the epidemiology models. These analyses were demonstrated through interactive charts, graphs, and maps.
- We also explored the correlations between disease spread and diverse socio-economic and environmental factors. Furthermore, we presented how our work's outcomes can facilitate contemporary and future policy-making.

Road Accident Analysis of Dhaka Using Counter Propagation Network March 2021 - August 2022
Supervisor: Dr. A.K.M. Ashikur Rahman (BUET)
Status: Accepted for publication in **Proceedings of International Conference on Ubiquitous Networking (UNet 2022)** [PDF]

- This research project was part of my undergraduate thesis, where we successfully identified the most accident-prone regions of Dhaka city using Counter Propagation Network.
- We also conducted a comparative analysis between Counter Propagation Network and K-means clustering by adopting various methods.
- We computed the accuracy of the clustering algorithms by using some state-of-the-art validity indices for the selection of hyper-parameters.

A Bimodal analysis on sentiment changes in Twitter during the Pandemic May 2021 - Present
Supervisor: Dr. A. B. M. Alim Al Islam (BUET)
Status: Under Review in **CHI 2023**

- We investigated changes in human sentiment over two years on Twitter during the COVID-19 pandemic by incorporating bimodal analyses of tweets and images.
- Collected and annotated tweets over the internet for the timeline of 2019-2020 and performed exploratory analysis on the data that portrays the change in sentiment in social media for a large timeline during the pandemic.
- We also proposed a heuristic that combines rule-based and automated text sentiment classification.

PROFESSIONAL EXPERIENCE

Software Engineer May 2022 - Present
Employer: IQVIA
- I am currently working as a software engineer at IQVIA where I am a part of the Frontend team and Python Service team of a pharmaceutical industry based product. I have been responsible for developing and amending various features crucial to the product.

Part-time Software Engineer February 2021 - June 2021
Employer: Bay Enterprise Systems
- I worked as a full-stack engineer and have developed many features in the frontend team using React and Material-UI. I have also been responsible to develop several API endpoints in the backend team using Node.js and Express.js.

Projects

Dengue BD | *Web Development Project*   2020
- This website is built with the purpose of making the general public more cautious about the severity of the Dengue condition in Bangladesh.

Proshanti | *Web Development Project*   2021
- This is a website providing mental health support where people can connect with psychiatrists and also can post and ask for people's suggestions.

What to cook | *App Development Project*   2022
- This is an app which suggests what you can make or cook based on the ingredients which are readily available to you.

Awards

- Dean's List Award in 2019 and 2022
- Board Merit Scholarship: Government of Bangladesh (Year: 2014, 2016)

Extracurricular Activities

Photographer   May 2022 - Present

Organization: [Voyage of Visuals](#)
- I have recently started working as a photographer in Voyage of Visuals and my works have been exhibited in several events like Coexistence.

Technical Skills

Programming Languages: Python, C++, C#, Java, JavaScript
Database: PostgreSQL, MongoDB, MySQL
Frameworks: React.js, Node.js, Angular, Django, Javafx
Tools/Software: Git, Microsoft Office Suit, Figma, MATLAB, Latex, Adobe XD, Cisco Packet Tracer

Reference

- [Dr. A.K.M. Ashikur Rahman](#)
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  Bangladesh University of Engineering and Technology
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- [Dr. A. B. M. Alim Al Islam](#)
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