

TANVIR ISLAM

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EDUCATION

University of Hawaii at Manoa

MS in Computer Science; CGPA: 3.92 / 4.00

Hawaii, USA

Aug 2022 – May 2024

BRAC University

BSc in Computer Science and Engineering; CGPA: 3.58 / 4.00

Dhaka, Bangladesh

May 2016 – Jan 2021

RESEARCH EXPERIENCE

Tanvir Islam, Peter Washington. **Personalized Prediction of Recurrent Stress Events Using Self-Supervised Learning on Multimodal Time-Series Data.** In *AI & HCI Workshop at the 40th International Conference on Machine Learning (ICML)*, Honolulu, Hawaii, USA. 2023. <https://arxiv.org/pdf/2307.03337.pdf>

Tanvir Islam, Peter Washington. **Personalization of Stress Mobile Sensing using Self-Supervised Learning** (Under Review)

Tanvir Islam, Anika Rahman Joyita, Md. Golam Rabiul Alam, Member, IEEE, Mohammad Mehedi Hassan, Senior Member, IEEE, Md. Rafiul Hassan Senior Member, IEEE, and Raffaele Gravina. **Human Behavior-based Personalized Meal Recommendation and Menu Planning Social System.** In *IEEE Transactions on Computational Social Systems*. DOI: [10.1109/TCSS.2022.3213506](https://doi.org/10.1109/TCSS.2022.3213506)

Abu Ubaida Akash, Mir Tafseer Nayeem, Faisal Tareque Shohan, **Tanvir Islam**. **Shironaam: Bengali News Headline Generation using Auxiliary Information.** In *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics*, pages 52–67. <https://aclanthology.org/2023.eacl-main.4.pdf>

SKILLS

Data Science, Machine Learning, Statistics
Tensorflow, Pytorch, Scikit Learn, Pandas, Numpy
Python, MySQL

COURSES TAKEN

Pattern Recognition, Advanced Artificial Intelligence, Human-Centred Artificial Intelligence, Machine Learning, Deep Learning with Neural Networks

WORK EXPERIENCE

Research Assistant

Hawaii Digital Health, and Laboratory for Advanced Visualization & Applications (LAVA)

Hawaii, USA

Sep 2022 – Present

- Research in creating meaningful visualizations by leveraging Large Language Models through over-hearing techniques.
- Research in health care focused on leveraging self-supervised learning techniques for the development of personalized health solutions.

Business Analyst

R-Squared

Dhaka, Bangladesh

Apr 2021 – Aug 2022

- Built analytical foundations for emerging startups.
- 25% of all startups in Bangladesh that have raised funding since 2022 have worked with R-Squared
- Conducted in-depth research and data analysis to generate actionable insights and recommendations for startups to optimize their operations, drive revenue growth, and enhance overall business performance.

Data Scientist

Shajgoj Limited, Leading E-commerce in Bangladesh

Dhaka, Bangladesh

Feb 2021 – May 2022

- Developed and implemented an efficient SKU-based product demand forecasting methodology using **Machine Learning**, resulting in a 15% improvement in inventory supply accuracy.
- Built a highly automated system that successfully scraped data from multiple shops, applying NLP techniques to compare prices of similar products with different names, resulting in a **30%** reduction in price analysis time.
- Utilized SQL to analyze day-to-day revenue, identify top-selling products, and assess customer acquisition.
- Automated report generation tasks using **Python** and **SQL**, reducing report creation time by 40% and enhancing overall productivity.
- Utilized SQL queries for **customer segmentation** and **cohort analysis**, leading to a significant 20% increase in revenue through targeted marketing strategies.
- Developed interactive dashboards in **Metabase** and **Tableau**, integrating SQL queries for seamless data visualization and analysis. The dashboards facilitated data-driven decision-making
- provided concise and informative reports on KPIs to non-technical stakeholders, including the brand and product teams. These reports effectively communicated complex data insights in a clear and accessible manner, enabling informed decision-making and driving business growth.

Machine Learning Engineer (Intern)

Ineuron AI

Bengaluru, India

Aug 2020 – Oct 2020

- Developed an Object Detection Application for a wastage shredder machine using SSD
- Annotated data were for about 7000 images by bounding boxes
- Used Jetson Nano to control the operation of the machine

Teaching Experience

Teaching Assistant

University of Hawaii at Manoa - Information and Computer Sciences Department

Hawaii, USA

Aug 2022 – Dec 2022

Teaching Assistant

BRAC University - Computer Science and Engineering Department

Dhaka, Bangladesh

May 2018 – Aug 2019

Volunteer Experience

Volunteer as Student Affiliate

East-West Center

Hawaii, USA

Jan 2023 – Present

- Serving as a facilitator, leading engaging discussions on cultural identity and global citizenship, and providing support to students during workshop activities, or as general support, assisting with logistics, registration, and overall event coordination on the day of the event.

Volunteer as Graphics Designer

Robotics Club of BRAC University

Dhaka, Bangladesh

Sep 2016 – Dec 2019

- Created captivating posters and visually appealing designs for various events organized by the club, effectively conveying the desired message and enhancing the overall visual experience.