Tauhid Tanjim

Computer and Information Science Department
Cornell Tech, Cornell University
2 W Loop Rd, New York, NY 10044

tanjim13.github.io/tauhidtanjim
Email: tt485@cornell.edu

Research Interest	Artificial Intelligence, Health Tech, Human-Robot Interaction, Computer Vision

Academic Appointments

Ph.D., Information Science
Cornell Tech, New York, NY,
Research Advisor: Dr. Angelique Taylor   Fall 2022 - Present

B.Sc. in Computer Science and Engineering (CSE)
University of Dhaka, Dhaka (2019)
Research Advisor: Dr. Md Mosaddek Khan   CGPA: 3.84/4.00

Publications

Zaoad, S. A., **Tanjim, T.**, Hasan, M., Mamun-Or-Rashid, M., Almansour, I. A., & Khan, M. M. (2021, September). Accelerating Message Passing Operation of GDL-Based Constraint Optimization Algorithms Using Multiprocessing. In 2021 IEEE Intl Conf on Parallel & Distributed Processing with Applications, Big Data & Cloud Computing, Sustainable Computing & Communications, Social Computing & Networking (ISPA/BDCloud/SocialCom/SustainCom) (pp. 706-714). IEEE.

Hossain, E., Karim, M. R., Hasan, M., Zaoad, S. A., **Tanjim, T.**, & Khan, M. M. (2022). SPaFE: A Crowdsourcing and Multimodal Recommender System to Ensure Travel Safety in a City. IEEE Access, 10, 71221-71232.

Awards and Grants

Cornell Tech Outstanding TA Award	2023
Champion under the category of "mobile app", DU ICT Fest	2018
Runner Up, BRACathon	2017
Grant Awarded for Government Based Project, ICT Ministry	2020

Computer Skills

Languages: C, C++, Java, Python Bash, LaTeX.
Web Development: HTML, CSS, JavaScript.
Applications: Vi/Vim, Eclipse, Visual Studio, Git, VMWare, VirtualBox.
Operating Systems: Unix, Linux, Mac OSX, Windows, Android.
Frameworks: PyTorch, Tensorflow, Keras, Scikit-learn, ROS.

Professional and Teaching Experience

Cornell Tech, Cornell University
Teaching Assistant

Introduction to Human-Robot Interaction	Fall 2022
Practical Application in Machine Learning	Spring 2023
Machine Learning Engineering	Fall 2023

Brac University
Part-Time Lecturer

Data Structures & Algorithms	Spring 2021, Summer 2021, Fall 2021
Data Communications	Fall 2021
Operating Systems	Summer 2021
Microprocessor	Spring 2021, Summer 2021
Computer Graphics	Summer 2021
Simulation and Modeling	Summer 2021, Fall 2021

	University of Dhaka
	Research Assistant
	Government-funded Project by ICT Ministry Bangladesh 2020-2021
Academic Services	**Reviewer**
	ACM/IEEE Conference on Human-Robot Interaction (HRI) 2020-2021

Projects

LalBus - An android-based application that helps Dhaka University students to track their buses. Additionally, this app provides route information and bus schedules to the students.
YouTube Link, Download Link

cricHUB - A web-based application to collect data from other news-based websites and publish it. In this web application, you can post news as well.
Project Link

iGestRecognito - This stands for 'Intelligent Gesture Recognition'. An android application to create a communication media in sign language using Text to Sign conversion and vice-versa. It includes an American Sign Language Keyboard and a media player with American Sign Language (ASL) subtitle feature. It also incorporates an alphabetical gesture pattern recognition feature.
YouTube Link

uRECO - A web application related to image processing and gesture recognition. It detects American Sign Language (ASL) characters using the computer camera, facial expression classifier & virtual PC keyboard
YouTube Link

COLORBALL - A game created with c++, using SFML. It collects stars to increase scores. The ball changes color and can pass if the ball and the obstacle have the same color. Once the gamer reaches higher levels, some bombs and death gems come as obstacles, and the ball moves faster than before.

PC Dictator - This is a remote PC control system built by using java, java networking, java swing, robot class. The server can control many clients' various actions simultaneously. The system sleep, shutdown, lock, send files, receive files, send messages, install software on its own. The Mouse and keyboard device of the Client's PC can be controlled from Server using robot class.
YouTube Link

Smart-Home - It is an Arduino based project. if any accident strikes in the user's house, it will send an SMS notification on the user's mobile and help to solve the problem simultaneously.

Extracurricular Activities

Animal Welfare Club of Dhaka University
Co-Founder   2020-2022
My organization is responsible for securing the wildlife
of the campus area.

Hashimukh
Educator   2014-2016
This is an NGO, which ensure rights of street children
and provides them free access to primary education.

References

Dr. Angelique Taylor
Assistant Professor
Information Science Department,
Cornell Tech, Cornell University, NY, USA
Email: amt298@cornell.edu

Dr. Md Mosaddek Khan
Associate Professor
Department of Computer Science and Engineering,
University of Dhaka, Bangladesh
Email: mosaddek@du.ac.bd