A.H.M NAZMUS SAKIB

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OBJECTIVE

Teaching/Research Assistantship for the pursuit of graduate studies

EDUCATION

B.Sc in Electrical and Electronic Engineering January 2018 – February 2023 Major:Computer, Minor:Communication **CGPA**: 3.41/4.00 Senior Design Project: Human Activity Recognition using Wi-fi Channel State Information

STANDARDIZED TEST SCORE(S)

- IELTS: 8.5 (Reading-9, Listening-9, Speaking-7.5, Writing-7.5)
- GRE: Verbal-161, Quant-168 , AWA-4.5

RESEARCH INTERESTS

Signal ProcessingMachine Learning	CybersecurityWireless Sensing	Computer visionDeep Learning	
RELEVANT COURSEWORK			
 Intelligent Systems Digital Signal Processing Linear Algebra 	 Electronics(Analog, Digital) Computer Programming Statistics and Probablity 	 Computer Network Signals and Systems Calculus 	

• Statistics and Probablity

RESEARCH EXPERIENCE

Research Assistant

Supervised by:Dr. Md. Shafiul Alam

March 2022 – September 2022

FabLab, University of Dhaka

University of Dhaka

- Creation of a dataset of wi-fi channel state information from esp32 microcontrollers recorded during performance of different activities.
- Creation of a system for activity detection from wi-fi channel state information using machine learning.

Remote Research Assistant at Qatar University Machine Learning Group

Supervised by: Muhammad E. H. Chowdhury

August 2022 - May 2023 Qatar University

- Reconstruction of fetal ECG from abdominal mother ECG using 1D CycleGAN.
- Adventitious lung sound detection using deep learning.

PUBLICATIONS

Article(s) in Journals

• Promit Basak*, A.H.M Nazmus Sakib*, Muhammad E. H. Chowdhury, Nasser Al-Emadi, Huseyin Cagatay Yalcin, Shona Pedersen, Sakib Mahmud, Serkan Kiranyaz, Somaya Al-Maadeed A Novel Deep Learning Technique for Morphology Preserved Fetal ECG Extraction from Mother ECG using 1D-CycleGAN. Expert Systems With Applications (*Equal contribution)

Article(s) in Conference Proceedings

- Promit Basak, Shahamat Mustavi Tasin, A.H.M Nazmus Sakib, Syed Doha Uddin, Md Atigur Rahman Ahad (2021). Windowless Approach to Recognize Various Modes of Locomotion and Transportation. UbiComp '21. Link
- Promit Basak, Shahamat Mustavi Tasin, Malisha Islam Tapotee, Md. Mamun Sheikh, A. H. M Nazmus Sakib, Sriman Bidhan Baray, and M. A. R. Ahad. 2020. Complex nurse care activity recognition using statistical features. UbiComp-ISWC '20. link

Book Chapter(s)

SELECTED DOOLECTS

 A.H.M Nazmus Sakib, Promit Basak, Syed Doha Uddin, Shahamat Mustavi Tasin, Md Atiqur Rahman Ahad(2021).Can Ensemble of Classifiers Provide Better Recognition Results in Packaging Activity? in Sensor and Video-Based Activity and Behavior Computing.Page-167-180. Link

SELECTED PROJECTS	
DDoS Attack Detection using Machine Learning HCLTech hack IITK	July 2020
 Mined captured wireshark data packets for meaningful tokens. 	
 Detected DDoS attacks using machine learning tecniques. 	
Satellite Image Segmentation Data Analytics Challenge,KDAG	November 2020
 Image processing, Augmentation and Imbalanced data handling. 	
 Extracted "vegetation" class using semantic segmentation. 	
Soccerbot Technovision, NSU	March 2019
 Built a bluetooth controlled robot with arduino. 	
 Created a simple android app for controlling the robot. 	

HONORS AND AWARDS

- 2nd Nurse Care Activity Recognition Challenge, 1st Runner Up
- HCLTech hack IITK 2020, 1st Runner Up
- Bento Packaging Activity Regnition Challenge 2021, Champion
- Mujib Idea Contest 2021, Selected among the top **30** ideas

TECHNICAL SKILLS

Languages: Python (numpy, pandas, scikit-learn, tensorflow), Javascript (ReactJS, NextJS), C, HTML, SQL Tools: VS Code, GIT, MATLAB, AutoCAD, Cisco Packet Tracer, Latex, Pspice

VOLUNTEERING ACTIVITIES

IEEE Student Branch DU Webmaster

IEEE RAS DU Program Coordinator February 2019-January 2020 University of Dhaka

February 2020-January 2021 University of Dhaka

REFERENCES

Available upon request