A. E. M Ridwan

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I am a research enthusiast. I graduated from BRAC University with a Bachelor of Science in Computer Science and Engineering with a minor in Mathematics. I'm currently employed with Feni University as a lecturer.

Educational Background

BRAC University
Bachelor of Science in Computer Science and Engineering
Minor in Mathematics
CGPA 3.77 out of 4.0

National Ideal College
HSC 2016
GPA 5.0 out of 5.0, Group Science

Motijheel Model High School
SSC 2014
GPA 5.0 out of 5.0, Group Science

Work Experience

Lecturer
FENI UNIVERSITY
May 2022-Present
Structured Programming Language, Data Structure, Algorithms, Computer Graphics

Student Tutor (ST)
BRAC University
Spring 2020-Fall 2021
Numerical Methods, Programming Language I(Java), Data Structure
Department of CSE

Volunteer Works

- Lead Instructor BUCC Academy organized by BRAC University Computer Club (Fall 2019-Spring 2021)
- Former Assistant Director BRAC University Computer Club(Summer 2019-Summer 2020)
- Former Senior Executive Robotics club of BRAC

Skills
Java, Python, Machine Learning, Qiskit, MySQL, Django, Arduino, Raspberry Pi, Git, Latex, Unity, EMU8086, Microsoft Office, Webots, Proteus, Labview

Research & Project

Publication
"Design and Implementation of a Smart Bike Accident Detection System" 2020 IEEE Region10 Symposium (TENSYMP), Dhaka, Bangladesh, 2020, pp. 386-389, DOI: 10.1109/TENSYMP50017.2020.9230656.

Thesis
Quantum Error Correction using Quantum Convolutional Neural Network, DOI: 10.13140/RG.2.2.22596.76162

Preparing for **Submisson**

- An Neural Network Architechture For Railway Fault Detection with XAI
- Annexation of Parameterized Quantum gate with Classical Neural Network(**Hybrid QCNN**) for multiclass classification

Projects
Autonomous Train Track Surveillance Robot : finds faults on the track and sends the location of faults to the control room server.

Bike accident detector and remedy : is a system that detects bike accidents and sends a message containing location of the biker to the hospitals, policestations and registered family members.

Marketmanagement system: is a system for collecting shop rent mantaining shop developed using django with MVT .

BRACU Charioteer : is a helping hand for the specially abled people. It's a easy control chair with track chain which helps it to climb the stairs also provides medical assistance along with SOS.

ChitChat: Random chating platfrom built with php mysql

Other projects : PD-LFR, Object-Avoiding-Robot, Smart Trash Can, Home Automation.

Awards and Grants

- Semi Finalist at Robotics Reality show - Esho Robot Banai Bangladesh's first ever Robotics Reality show where my team competed against universities of the country (April-2019)
- Secured 4th position (Fall-18) and 5th position (Spring-19) at Intra University Programming Contest in BRAC University.
- Merit Scholarship Based on BracU Academic Results Summer 21.
- Member Feni University OBE Curriculum team.

Reference

Sowmitra Das (Lecturer)
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Dr. Md. Motaharul Islam(Professor)
Department of CSE, United International University
Contact : 01712644837 E-mail: motaharul@cse.uiu.ac.bd