A. E. M Ridwan

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ResearchGate | GitHub | LinkedIn

Last semester student at BRAC University. Doing major in CSE and minor in Mathematics. Currently doing elective course Data Science : Coding with real world data. Interested to work in the field of ML and Data Science .

Educational Background

BRAC University
Bachelor of Science in Computer Science and Engineering
CGPA 3.75
After Completing 133 credit of 136 (2017-present)

Minor in Mathematics
CGPA 3.71
After Completing 21 credit of 21 (2017-present)

Work Experience

Student Tutor (ST)
BRAC University
Spring 2020-Present
CSE330: Numerical Methods
CSE110: Programming Language I
CSE220: Data Structure
Department of Computer Science and Engineering

Volunteer Works

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

Skills
Java, Python, Machine Learning, Qiskit, Matplotlib, Numpy, Pandas, Seaborn, SciPy, Webots, Proteus, Labview, MySQL, Django, Arduino, Raspberry Pi, Git, Competitive Programming, Latex, Microsoft Office, Unity, EMU8086

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

Ongoing work : An Neural Network Architechture For Railway Fault Detection with XAI

Projects
Autonomous Train Track Surveillance Robot : finds faults on the train track using IR and sends the location of faults through GPS and GSM to the control room server

Bike accident detector and remedy : is a system that detects bike accidents using MPU6050, SIM808, Raspberry Pi and Arduino Uno and send 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

BRACU Charioteer : is a helping hand for the specially abled people. Easy to control with a joystick installed in the wheel chair,we used track chain instead of the normal wheel which helps it to climb the stairs.ECG sensor and Pulse sensor and medicine alert used here to help the patient. Patient can also call 999 with the chair.

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)

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- Secured 4th position (Fall-18) and 5th position (Spring-19) at Intra University Programming Contest in BRAC University

Reference

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BRAC University
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