

S. M. NAVIN NAYER ANIK

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EDUCATION

BSC in Computer Science and Engineering (CSE), BRAC University	2023
GPA: 3.82	
Higher Secondary Certificate (HSC), Gazipur Cantonment College	2016
GPA: 5.0	
Secondary School Certificate (SSC), Cantonment Board High School, Rajendrapur, Gazipur	2014
GPA: 5.0	

SKILLS

Languages	Java, Python, HTML, CSS, Assembly language
Frameworks	PyTorch, TensorFlow, Keras.io, Scikit Learn, OpenCV
Tools	Git, Docker, MySQL, ROS, Colab, Shell Scripting
Soft Skills	Time Management, Teamwork, Leadership, Communication, Problem Solving

PROJECTS

Optimal Transport Theory-based GAN

- Built a Generative Adversarial Network based on Optimal transport theory.
- to Generate an unreal dataset to improve the performance of classification models.
- Implemented Using Tensorflow.

BRACU DUBURI

- The first autonomous underwater vehicle of Bangladesh.
- The primary aim is to turn up at international competitions.
- Capable of Underwater autonomous navigation.
- Uses Jetson Nano as processing unit.
- An transfer-learning-based object detection algorithm is developed for the rover.
- Ueses custom designed PCB for connection of all sensors and power distribution.
- Can operate up to 30m underwater for 19 Minutes.
- Secure 7th position in SAUVC (Singapore Autonomous Underwater Vehicle Competition) 2018.
- Got Outstanding Rookie Team award at Robosub international AUV competition, held in the USA 2022.

Real-time sleep detection and warning system.

- A real-time driver sleep detection system that alerts drivers if they feel sleepy during driving.
- Built based on openCV.

EXTRA-CURRICULAR ACTIVITIES

- Former Sub-Team Lead of BRACU DUBURI.
- Machine Vision Contributor At Onushondhani Lab.
- Former Senior Executive in the Robotics Club of BRAC University.

TEACHING EXPERIENCE

Undergraduate Teaching Assistant at BRAC University

January 2022 - May 2023

- Conduct consultation sessions for students.
- Assist supervising faculty in creating materials for course.
- Check and grade assignments and lab submissions.

THESIS

Optimal Transport Theory based GAN for Medical Image Augmentation and Classification

PUBLICATION (PAPER ON REVIEW)

- Rundown of the Medical Natural Language Processing Task based on Actual Documents.
- TIntegrating Subject-Matter Expertise with Natural Language Inference on Clinical Texts.

AWARDS

- Top Five Industrial Projects at Conference on 4th IR 2021.
- Top 10 Semifinalists at Robosub international AUV competition, held in The USA in 2022.
- Outstanding rookie team award at Robosub international AUV competition, held in the USA in 2022.
- Highest Academic Distinction.
- Dean's List VC's List 5 times.

REFERENCES

- Prof. Md. Golam Rabiul Alam
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