

Abdullah Al Masud

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RESEARCH INTEREST

Robotics, Computer Vision, Meta-Learning, Retrieval Augmented Generation and LLM

WORK EXPERIENCE

Green University of Bangladesh

Research Engineer, Faculty of Science and Engineering (FSE)

Rupganj, Bangladesh

May 2024 – ongoing

United International University

Undergraduate Teaching Assistant

Dhaka, Bangladesh

Spring 2019 – Summer 2022

EDUCATION

United International University

Bachelor of Science in Computer Science and Engineering, Data Science

Dhaka, Bangladesh

Oct. 2018 – Sept. 2023

Cherry Blossoms Int'l School

A' Levels, Maths and Physics

Dhaka, Bangladesh

June 2018

Cherry Blossoms Int'l School

O' Levels, Science

Dhaka, Bangladesh

Jan. 2015

PUBLICATIONS

- [1] **A. Al Masud**, S. Hossain, M. Rifa, F. Akter, A. Zaman, and D. M. Farid, "Meta-learning in supervised machine learning," in *2022 14th International Conference on Software, Knowledge, Information Management and Applications (SKIMA)*, pp. 222–227, 2022.

RESEARCH IN PROGRESS

- [1] Xpert: An End-to-End Algorithm Recommender System for Supervised Dataset. (Thesis work) [Journal]
We developed a web-app on algorithm recommender system which extracts meta-data from datasets to predict the best algorithm for the supervised dataset.
- [2] Development of a Mars Rover Prototype: Autonomous Navigation and Life Exploration. [Conference]
This study showcases how our human helper rover, "Maven", assesses subsystems for planetary exploration in URC 2022, addressing fundamental and mission-specific functionalities, evaluating performance through scenario-based tests, and assessing criteria such as resilience, navigability, traversability, and mechanical qualities, including an autonomous navigation system and a novel life exploration subsystem.
- [3] Collaborative AI for Validity of Cancer Classification. [Conference]
We interviewed specialists and work on a cancer classification model capable of reasoning to provide as collaborative AI in medicine for decision making, from sample histopathology images.

AWARDS AND HONORS

- 1 . **Champions in Asia and ranked 9th global** 2023
University Rover Challenge-2023 | The Mars Society *Hanksville, Utah, USA*
- 2 . **Champions in Asia and ranked 13th global** 2022
University Rover Challenge-2022 | The Mars Society *Hanksville, Utah, USA*
- 3 . **Ranked 3rd global and winners in Material Science** 2023
Anatolian Rover Challenge | UKET Space Exploration Society *Ankara, Türkiye*

EXTRACURRICULAR EXPERIENCE

- 1 . **Team Director**, GUB Mars Rover Team 2024 - ongoing
- 1 . **Software and Autonomous Team lead**, UIU Mars Rover team. 2021 - 2023
- 2 . **Undergraduate Teaching Assistant**, United International University *Spring 2019 - Summer 2022*
- 3 . **Web Master**, UIU Robotics Club and UIU Mars Rover team 2022- 2023
- 4 . **Publication and Organizing Team**, Asia-Oceania Congress of Medical Physics (AOCMP) *Dec 2021*
- 5 . **Club President** , UIU 100 Club 2018- 2020

REFERENCES

- Dr. Dewan Md. Farid** *Dhaka, Bangladesh*
Professor, Department of CSE, UIU
dewanfarid@cse.uiu.ac.bd
- Dr. Khawza Ifthekaruddin Ahmed** *Dhaka, Bangladesh*
Professor and Pro-Vice Chancellor, GUB
pro-vc@green.edu.bd
- Mr. Akib Zaman** *Cambridge, MA, USA*
PhD Candidate, Department of EECS, MIT
akib@mit.edu