JAHIR SADIK MONON

GitHub ♦ LinkedIn ♦ Academic Site ♦ Mail

EDUCATION

University of Dhaka

B.Sc. (Hons) in Computer Science and Engineering

CGPA: 3.93/4.00 | Rank - 1st/63 | Advisor: Dr. Md Mosaddek Khan

Thesis: Learning to Cooperate Among Heterogeneous Agents in Sparse Reward Environments

Dhaka College

Higher Secondary School Certificate | GPA: 5.00/5.00

Covernment Laboratory High School, Dhaka

Dhaka, Bangladesh

Dhaka, Bangladesh

Dhaka, Bangladesh

EXPERIENCES

Secondary School Certificate | GPA - 5.00/5.00

Center for Computational & Data Sciences, IUB | CCDS 2024 - present
Research Assistant Dhaka, Bangladesh

- Involvement in research projects on Reinforcement Learning, Multi-modal learning, and Natural Language Processing. Reviewed, and presented recent papers on the respective domains
- Tutored undergraduate students in the CIS-101 courses, covered Introduction to Python programming language, Application development using Microsoft PowerApps, Introduction to Artificial Intelligence, Prompt Engineering, and other technologies
- Advisors: Dr. Amin Ahsan Ali and Dr. AKM Mahbubur Rahman

ACHIEVEMENTS

DataVerse Challenge - ITVerse 2023 Finalists	2023
Robi bdapps Ideathon, Dhaka University 2nd Runner-up	2023
Hult Prize Impact Summits Campus Champion & Regional Finalists	2021
Bangladesh Mathematical Olympiad Regional Runner-up (Junior)	2013
Bangladesh Mathematical Olympiad Regional Champion (Junior)	2012

COURSES & CERTIFICATES

Fundamentals of Reinforcement Learning Coursera	2022-23
Introduction to Reinforcement Learning by David Silver 2015 Youtube	2022-23
Deep Learning Specialization Coursera	2022-23
Intro to Machine Learning Kaggle	2022
Intermediate Machine Learning Kaggle	2022
Python for Everybody 4 Course Specialization Coursera	2020

PROGRAMMING PROJECTS

${f DUStudyLink}$	Backend Developer & Database Management	repo	2023
My responsibilitie	es in the development of this Web application in	cluded	database schema design, coding
data-model classe	es, and integration with Firebase Firestore.		

Salvare | Backend Developer & Database Management | repo

2021

2008-2016

During the development of this Android application, my responsibility was to use the Flutter framework and the Dart programming language to create the user interface, data model classes, control user navigations, and local database handling using SQL. This application can be used for storing online

¹Under review in IJCAI 2024

resources with various categorizing, searching, and filtering features.

Apellai | Backend Developer & Database Management | repo

2021

It is an online music streaming application for android phones. My responsibility in development was to handle the API calls from streaming services, design the database schema in PostgreSQL, and code the backend functions using the Kotlin language in Android Studio.

!Typo | Backend & Frontend Developer | repo

2019

A Windows-based journal application entirely written in the C programming language. I used the SDL library for Graphical User Interface.

Other projects on application development, machine learning, etc., can be found on my github.

TECHNICAL SKILLS

Programming Languages
Software & Tools
Python Packages

Python, C, C++, Java, Dart, Kotlin, SQL, Assembly, HTML LaTeX, Git, Flutter, Android Studio, MySQL, PostgreSQL, RegEx Pandas, Matplotlib, Numpy, Jupyter, PyTorch, Scikit-Learn BeautifulSoup, Selenium, Seaborn, Requests, Urllib

RESEARCH INTEREST

Reinforcement Learning

My primary research interest is in Reinforcement learning. More specifically, cooperative/competitive multi-agent reinforcement learning (MARL). I am deeply interested in extending my undergraduate thesis work and learning about the applications of MARL in multi-robot tasks. I am also interested in learning about inverse reinforcement learning, learning from demonstrations, etc.

Multi-Modal Learning

I'm intrigued by the recent advances in Multi-Modal Learning research, due to its potential to transform system understanding and decision-making. I see it as a key area in the next AI revolution.

Natural Language Processing

Despite my limited exposure to this research field, I am deeply fascinated by recent developments in Large Language Models and their capabilities. My interest was particularly piqued while studying several papers on AI Explainability. I am also eager to explore the field's applicability in reducing the spread of social-media misinformation and in information verification.

OTHERS

Experience

• Writing Higher Secondary ICT book summary and tips | iPublications

2020

• Dhaka regional school football | Regional Champion

2016

• Executive member at Science Club of The Laboratorians

2013-16

Languages

Bangla | English

REFERENCE

Dr. Md. Mosaddek Khan | University Website | Personal Website

Associate Professor.

Department of Computer Science and Engineering, University of Dhaka

Amin Ahsan Ali, PhD | University Website | CCDS Website

Associate Professor,

Department of Computer Science and Engineering, Independent University, Bangladesh