

Jahir Sadik Monon

jahirsadik.github.io ◇ [linkedIn](#) ◇ [kaggle](#) ◇ [github](#) ◇ jahirsadikmonon@gmail.com

RESEARCH INTEREST

I am broadly interested in developing autonomous agents that continuously learn, reason, and generalize. My work is at the intersection of reinforcement learning, multi-modal learning, and embodied AI.

EDUCATION

University of Dhaka <i>B.Sc. (Hons) in Computer Science and Engineering</i> CGPA: 3.93/4.00 Ranked 1 st in class Advisor: Dr. Md Mosaddek Khan Thesis: <i>Learning to Cooperate Among Heterogeneous Agents in Sparse Reward Environments</i>	Dhaka, Bangladesh 2019 - 2023
Dhaka College Higher Secondary School Certificate GPA: 5.00/5.00	Dhaka, Bangladesh 2016-2018
Government Laboratory High School, Dhaka Secondary School Certificate GPA - 5.00/5.00	Dhaka, Bangladesh 2008-2016

RESEARCH EXPERIENCE

Center for Computational & Data Sciences, IUB CCDS <i>Research Assistant</i>	2024 - present Dhaka, Bangladesh
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- Research projects on Reinforcement Learning, Multi-modal learning & LLM planners.
- Advisors: [Dr. Amin Ahsan Ali](#) and [Dr. AKM Mahbubur Rahman](#)

ACADEMIC EXPERIENCE

Coding for All Initiative, IUB Coding for All Initiative <i>Tutor</i>	2024 - present Dhaka, Bangladesh
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- Tutored undergraduate students in the CIS-101 courses, covering topics about Python programming language, application development, introduction to AI, Prompt Engineering, and others.

PUBLICATIONS

<i>Towards Heterogeneous Agent Cooperation in Decentralized Multi-Agent Systems</i> Jahir Sadik Monon, Deeparghya Dutta Barua, Md Mosaddek Khan Topic: Heterogeneous agent cooperation in decentralized Multi-agent Reinforcement Learning	2024
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HONORS & AWARDS

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

SELECTED PROJECTS

DUStudyLink Web application for collaborative study materials repo	2023
<i>Responsibilities:</i> Database schema design, implemented data-model classes, integrated the backend architecture with Firebase Firestore.	
Walkability Dataset Crowdsourced dataset & research on Dhaka city walkability repo	2022
<i>Responsibilities:</i> Led a team of 60+ people from my class to organize the crowdsourced data gathering process using Gaia GPS, also was in charge of data cleaning and analysis.	
Salvare Android application for online resource management repo	2021
<i>Responsibilities:</i> Implemented data model classes, user navigation, and local database handling using SQL. Created the user interface using Flutter and Dart.	
Apellai Online music streaming application for Android repo	2021
<i>Responsibilities:</i> Handling the API calls from streaming services, creating the database schema, integrating with PostgreSQL, and coding the backend using Kotlin Android Studio.	
!Typo Interactive journal application for Windows repo	2019
<i>Responsibilities:</i> Written in the C programming language, using the SDL library for GUI.	
Other projects on application development, machine learning, etc., can be found on my github .	

ACADEMIC SERVICE

IEEE International Conference on Image Processing (ICIP) <i>Assisted Review</i>	2024
27th International Conference on Pattern Recognition (ICPR) <i>Assisted Review</i>	2024

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

TECHNICAL SKILLS

Programming Languages	Python, C, C++, Java, Dart, Kotlin, SQL, Assembly
Software & Tools	LaTeX, Git, Flutter, Android Studio, PostgreSQL, RegEx

OTHERS

• Coauthor for Higher Secondary ICT guide book iPublications	2020
• Dhaka Regional School Football Regional Champion	2016
• Executive member Science Club of The Laboratorians	2013-16

REFERENCE

Dr. Md. Mosaddek Khan Homepage Associate Professor Department of Computer Science & Engineering University of Dhaka	Dr. Amin Ahsan Ali Homepage Associate Professor Department of Computer Science & Engineering Independent University Bangladesh
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