

# Jahir Sadik Monon

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

## RESEARCH INTEREST

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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

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

## RESEARCH EXPERIENCE

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<b>Center for Computational &amp; Data Sciences, IUB   <a href="#">CCDS</a></b>	2024 - present
<i>Research Assistant</i>	Dhaka, Bangladesh
<ul style="list-style-type: none"><li>Research projects on Reinforcement Learning, Multi-modal learning &amp; LLM planners.</li><li>Advisors: <a href="#">Dr. Amin Ahsan Ali</a> and <a href="#">Dr. AKM Mahbubur Rahman</a></li></ul>	

## ACADEMIC EXPERIENCE

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<b>Coding for All Initiative, IUB   <a href="#">Coding for All Initiative</a></b>	2024 - present
<i>Tutor</i>	Dhaka, Bangladesh
<ul style="list-style-type: none"><li>Tutored undergraduate students in the CIS-101 courses, covering topics about Python programming language, application development, introduction to AI, Prompt Engineering, and others.</li></ul>	

## PUBLICATIONS

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<i><a href="#">Towards Heterogeneous Agent Cooperation in Decentralized Multi-Agent Systems</a></i>	2024
<b>Jahir Sadik Monon, Deeparghya Dutta Barua, Md Mosaddek Khan</b>	
<b>Topic:</b> Heterogeneous agent cooperation in decentralized Multi-agent Reinforcement Learning	

## HONORS & AWARDS

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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

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<b>Walkability Dataset</b>   Crowdsourced dataset & research on Dhaka city walkability   <a href="#">repo</a>	2023
<i>Responsibilities:</i> Database schema design, implemented data-model classes, integrated the backend architecture with Firebase Firestore.	
<b>DUStudyLink</b>   Web application for collaborative study materials   <a href="#">repo</a>	2023
<i>Responsibilities:</i> Database schema design, implemented data-model classes, integrated the backend architecture with Firebase Firestore.	
<b>Salvare</b>   Android application for online resource management   <a href="#">repo</a>	2021
<i>Responsibilities:</i> Implemented data model classes, user navigation, and local database handling using SQL. Created the user interface using Flutter and Dart.	
<b>Apellai</b>   Online music streaming application for Android   <a href="#">repo</a>	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.	
<b>!Typo</b>   Interactive journal application for Windows   <a href="#">repo</a>	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 <a href="#">github</a> .	

## ACADEMIC SERVICE

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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

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Fundamentals of Reinforcement Learning   <a href="#">Coursera</a>	2022-23
Introduction to Reinforcement Learning by David Silver (2015)   <a href="#">Youtube</a>	2022-23
Deep Learning Specialization   <a href="#">Coursera</a>	2022-23
Intro to Machine Learning   <a href="#">Kaggle</a>	2022
Intermediate Machine Learning   <a href="#">Kaggle</a>	2022
Python for Everybody 4 Course Specialization   <a href="#">Coursera</a>	2020

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, C, C++, Java, Dart, Kotlin, SQL, Assembly
<b>Software &amp; Tools</b>	LaTeX, Git, Flutter, Android Studio, PostgreSQL, RegEx

## OTHERS

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• Coauthor for Higher Secondary ICT guide book   <a href="#">iPublications</a>	2020
• Dhaka Regional School Football   Regional Champion	2016
• Executive member   <a href="#">Science Club of The Laboratorians</a>	2013-16

## REFERENCE

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<b>Dr. Md. Mosaddek Khan</b>   <a href="#">Homepage</a> Associate Professor Department of Computer Science & Engineering University of Dhaka	<b>Dr. Amin Ahsan Ali</b>   <a href="#">Homepage</a> Associate Professor Department of Computer Science & Engineering Independent University Bangladesh
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