

Yeasir Rayhan

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EDUCATION

Purdue University

Ph.D. in Computer Science

Advisor: [Walid G. Aref](#)

West Lafayette, IN

August 2021-Current

Bangladesh University of Engineering and Technology

B.Sc. in Computer Science & Engineering

Thesis: [Efficient Scheduling of Generalized Group Trips in Road Networks](#)

Advisor: [Tanzima Hashem](#)

Dhaka, Bangladesh

July, 2014 - October, 2018

RESEARCH INTEREST

Machine Learning for Database Systems, Spatio-Temporal Data Mining, Graph Representation Learning, AI for Climate

RESEARCH EXPERIENCE

Bangladesh University of Engineering and Technology

Part-time Research Assistant, Dept. of CSE

Dhaka, Bangladesh

January, 2021 - August, 2021

- I developed AIST, an Attention- based Interpretable Spatio Temporal Network for crime prediction, which can model the dynamic spatio-temporal correlations for a crime category based on past crime occurrences, external features (e.g., traffic flow and point of interest (POI) information) and recurring trends of crime. [[Demo](#)] [[Code](#)]

PUBLICATIONS

- **Yeasir Rayhan**, Tanzima Hashem. [AIST: An Interpretable Attention-based Deep learning Model for Crime Prediction](#). In Arxiv, 2020
- **Yeasir Rayhan**, Tanzima Hashem, Roksana Jahan, Muhammad Aamir Cheema. [Efficient scheduling of generalized group trips in road networks](#). In *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2019.

POSTERS

- **Yeasir Rayhan**, Tanzima Hashem, Roksana Jahan, Muhammad Aamir Cheema. [Efficient scheduling of generalized group trips in road networks](#). In International Conference on Networking, Systems and Security (NSysS), 2019

ACADEMIC SERVICE

Conference Reviewer: NSysS (2020), APWEB-WAIM (2019, 2020), ICASERT (2019)

Organizing Committee Member: ICASERT (2019)

TEACHING EXPERIENCE

Purdue University, West Lafayette, IN

August, 2021 - Present

Graduate Teaching Assistant, Department of Computer Science

East West University, Dhaka, Bangladesh

January, 2019 - July, 2021

Lecturer, Department of Computer Science and Engineering

Eastern University, Dhaka, Bangladesh

October, 2018 - December, 2018

Lecturer, Department of Computer Science and Engineering

AWARDS & GRANTS

- Co-author of the proposal “Interpretable Spatio-Temporal Deep Learning Models for Safe Cities” and was awarded *5 lakh (in BDT)* grant by the ICT Division, Bangladesh, 2020
- Regional Winner (Asia) in Computer Science, [The Global Undergraduate Awards](#), 2019, for my undergraduate thesis. [[Entry](#)]

TECHNICAL SKILLS

Programming Languages: Python (PyTorch, Scikit-learn, NumPy, SciPy), Java, C/C++

Tools/OS: Android Studio, MySQL, Oracle, Firebase, LaTeX, Git; Windows, Linux