Aniruddha Rakshit

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EDUCATION

State University of New York (SUNY) Binghamton

Ph.D. in Computer Science, Advisor: Jayson Boubin

August, 2022–Present

Binghamton, NY

Jahangirnagar University

M.S. in Computer Science and Engineering

Dhaka, Bangladesh April 2015–February 2017

Jahangirnagar University

B.S. in Computer Science and Engineering

Dhaka, Bangladesh 2010–2014

WORK EXPERIENCE

State University of New York at Binghamton

Graduate Assistant

Binghamton, USA Fall 2022-Present

Daffodil International University

Assistant Professor

Dhaka, Bangladesh Spring 2022 - Summer 2022

Daffodil International University

Lecturer

Dhaka, Bangladesh Fall 2015 - Fall 2021

PUBLICATIONS

- [1] Aniruddha Rakshit, S. Reddy, R. Ramnath, A. Arora, and J. Boubin, "Righteous: Automatic right-sizing for complex edge deployments", in 9th ACM/IEEE Symposium on Edge Computing (SEC 2024), 2024, 1–12 [To Appear].
- [2] Aniruddha Rakshit and J. Boubin, "Poster abstract: Automatic deployment right-sizing through hyperparameter optimization", in *Proceedings of the 8th ACM/IEEE Conference on Internet of Things Design and Implementation*, 2023, pp. 438–439.
- [3] R. Hafiz, M. R. Haque, **Aniruddha Rakshit**, and M. S. Uddin, "Image-based soft drink type classification and dietary assessment system using deep convolutional neural network with transfer learning", in *Journal of King Saud University Computer and Information Sciences*, 2022, pp. 1775–1784.
- [4] F. Ahmed, A. R. Choudhury, **Aniruddha Rakshit**, and M. Z. Hasan, "2020 ieee region 10 symposium (tensymp)", in *An IoT Based System for Printing Braille Letter from Speech*, 2020, pp. 344–347.
- [5] R. H. Hridoy, F. Akter, and **Aniruddha Rakshit**, "Computer vision based skin disorder recognition using efficientnet: A transfer learning approach", in *2021 International Conference on Information Technology (ICIT)*, Apr. 2020, pp. 482–487.
- [6] M. I. Khairul Islam, R. I. Meem, F. B. Abul Kasem, **Aniruddha Rakshit**, and M. T. Habib, "Bangla spell checking and correction using edit distance", in 2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT), 2019, pp. 1–4.

PROJECTS

• Third Eye (OpenCV, Long Range Radio Communication, 2023)

In this project, one node, a combination of a camera module and LoRa, detects objects and sends them to a receiver node using LoRa. [Details]

• Spotted Lantern Fly Detection through Drones (YOLOv8, 2023)

The aim of this project to detect Spotted Lantern Flys through object detection using drones. This project is a part of the Digital Ag Hackathon at the Cornell Institute for Digital Agriculture. [Details]

• Robot Task Planning with LLMs (Prompt Engineering, 2023)

I explored the capabilities of large language models like GPT-3 in interpreting grounded instructions for everyday tasks by breaking into smaller tasks which can be executed by robots.[Details]

SKILLS

- Programming Languages: Python, C++, C, Java
- Simulation and Design Tools: MATLAB, SIMULINK, ROS
- System Design Skill: Docker, Kubernetes, Load Balancer
- Machine Learning Libraries: PyTorch, Tensorflow, Keras, Scikit-Learn

Relevant Course Works

Programming Languages | Operating Systems | Introduction to Robotics | Introduction to IoT

SCHOLARSHIPS AND AWARDS

• Jahangirnagar University Scholarship (5th Position in class)

December 2013

• Jahangirnagar University Scholarship (7th Position in class)

August 2013

• Bangladesh Government Scholarship (HSC GPA 5.0)

March 2010

Extracurricular Activities

• Convenor of program design and management
International Joint Conferences on Advances in Computational Intelligence 2020 (IJCACI2020)

2020

• Member

2010-2014

Badhan-A Blood Donation Group

2009

• Member at Some Event

Notre Dame College Nature Study Club