MICHELLE THALAKOTTUR

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Pune, Maharashtra, India

EDUCATION

Northeastern University, Boston, MA. 2021 - Present
Doctor of Philosophy in Computer Science
Advisors: Frank Tip, Amal Ahmed

MKSSS's Cummins College of Engineering for Women, University of Pune 2017 - 2021
B.Tech. in Computer Engineering
CGPA: 8.9/10.0

RESEARCH EXPERIENCE

Indian Institute of Technology, Bombay May 2020 - Present
B.Tech. Research Project
Advisor: Professor Uday Khedker, Dept. of Computer Science
Topic: Formalization of Translation Performed by the SCLP Compiler Phases

Indian Institute of Technology, Bombay June 2020 - Sept. 2020
Research Intern
Advisor: Professor Uday Khedker, Dept. of Computer Science
Topic: Data Flow Analysis

- Worked on a research project where I provided an insight that allowed the algorithm to be generalized beyond its earlier application.
- Designed and implemented a data structure from the ground up to help represent a sparse family of sets that are discovered incrementally in Data Flow Analysis so that we can efficiently compare and perform operations on these sets.

Indian Institute of Technology, Patna Nov. 2018 - June 2019
Research Intern
Advisor: Professor Jimson Mathew, Dept. of Computer Science
Topic: Dimensionality Reduction, Machine Learning

- Implemented, tested and presented a report of my results on a new algorithm that aimed to perform Dimensionality reduction in a Semi-supervised setting. I also compared the results to existing state-of-the-art algorithms and helped write a paper on the algorithm.
- This paper was later accepted after peer review for publication in the International Conference on Neural Information Processing (ICONIP 2019), Sydney, Australia.

PEER-REVIEWED PUBLICATIONS

Semi-supervised Regularized Coplanar Discriminant Analysis ICONIP 2019
Rakesh Kumar Sanodiya, Michelle Davies Thalakottur, Jimson Mathew, Matloob Khushi
In *Proceedings of the International Conference on Neural Information Processing (ICONIP).*
Sydney, Australia, December 2019

Multi-objective Approach for Semi-Supervised Discriminant Analysis with Relative Distance CEC 2019
Rakesh Kumar Sanodiya, Sriparna Saha, Jimson Mathew, Michelle Davies Thalakottur, Utkarshinee Aadya
In *Proceedings of the 2019 IEEE Congress on Evolutionary Computation (CEC).*
Wellington, New Zealand, June 2019

A new transfer learning algorithm in semi-supervised setting IEEE Access
Rakesh Kumar Sanodiya, Jimson Mathew, Sriparna Saha, Michelle Davies Thalakottur
In *IEEE Access, vol. 7, pp. 42956-42967, 2019.*
March 2019

OUTREACH AND MENTORSHIP

Talks

· *Pursuing Undergraduate Research* [video] [slides]
This is an introductory talk given to students from disconnected undergrad programs who have never considered doing research, or who are starting to think about pursuing research.

Student Club: Artificial Intelligence and Computer Vision Society (AICVS)

Head Coordinator 2019 - 2020

· Coordinated outreach efforts for undergraduate research in computer science.
· Organized a bimonthly platform for students to present their ongoing work and projects.

Website Coordinator 2018 - 2019

· Set up and maintained the club website in the first year of the club.
· Coordinated student volunteer efforts to publish monthly blogs centered around Machine Learning.

Student Chapter: Society of Women Engineers (SWE)

Head of Student Representatives 2019 - 2020

· Our chapter received the SWE WE Local 2021 Outstanding Outreach Event Award and SWE We Local 2021 Joint Professional/Collegiate Event Award for our work.
· Organized an STEM outreach program with 25 student volunteers in partnership with a local education NGO, the IDEA foundation for K-8 underprivileged students.

Student Representative 2018 - 2019

· Helped organize a STEM Outreach program with 20 student volunteers to Maher Ashram, Pune for K-8 underprivileged students.

OTHER ACTIVITES

Programming Languages Mentoring Workshop (PLMW) Aug. 2020
International Conference on Functional Programming (ICFP2020)