Shwetha Koushik Manchinahalli Srikanta
Curriculum Vitae

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Education

Syracuse University, *Syracuse, New York* *GPA 3.8*

Ph.D. Computer and Information Science Engineering Aug 2021 – May 2026
Graduate Assistant EECS Department
Relevant coursework: Artificial Neural Networks, Reinforcement learning (AI), Network Science, Ethics AI/ML, Storage systems for Big Data, Ubiquitous Computing

M.S. Computer and Information Science Engineering May *2021*
Excellence Scholar of EECS Department
Relevant coursework: Natural Language Processing, Data Science, Machine Learning, Algorithms Foundations, Deep Learning and Machine Intelligence (AI)

Amrita Vishwa Vidyapeetham, *Bangalore, India*

B.Tech. Computer Science Engineering Jun 2018
University Rank Holder *GPA 9.46/10.0*
Relevant coursework: Analysis and design of algorithms, Programming fundamentals

Research

Research Interest

- Social Network Analysis: Dynamics of social network for social good
- Machine learning
- Deep Learning

Published Paper

- Shwetha Koushik Manchinahalli Srikanta, Katie Pierce, Joshua Introne, Chilukuri Mohan, Sucheta Soundarajan, “Structure and dynamics of a charitable network” *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (Accepted 2023)*
- Jalali, Zeinab S., Qilan Chen, Shwetha M. Srikanta, Weixiang Wang, Myunghwan Kim, Hema Raghavan, and Sucheta Soundarajan. "Fairness of Information Flow in Social Networks." *ACM Transactions on Knowledge Discovery from Data* (2022).

Research Projects

ECS Donor project *(Jan 2023 – present)*

- *Analyzed donation through co-attendance network. Resulted in small subset of filtered donors that can be used for prediction.*

- *Predict donation amount using network properties and demographics.*

Determining Network Success *(Jan 2023 – present)*

- *Agent-based model for interactions/recommendations and for inferring scores of agents in a network*

Stratification Game *(May 2021 – Feb 2023)*

- *Designed an interactive end-end online multi-player game that simulates the phenomenon of network stratification by collecting the preference of players and matches players for subsequent rounds to gather empirical evidence for our previous theoretical framework.*

Extension of Information Unfairness *(May 2020 - 2021)*

- *Designed Epidemic based model to simulate flow of information and used existing measure to compute information unfairness.*
- *Designed methods for computation for normalizing matrices and weighted matrices.*

Technical Skills

- **Programing Languages**: Python, C++, C, Java, bash
- **Web based Programing**: HTML, CSS, JavaScript, jQuery, Node.js,
- **Database Querying**: SQL, MySQL, MongoDB
- **Tools and Technology**: Git, Jira, Jenkins
- **Certified in CCNA** June 2015
- **IELTS Score:** 7.0/9.0

Work Experience

Software Engineer, Thermo Fisher Scientific, India *(Jul 2018 – Jul 2019)*

- Worked as a full stack developer for Ion Reporter
- Communicated with co-workers about requirement changes, resolved bugs and peer code review
- Organized scrum activities for the team following the Agile methodologies

R&D Intern, VMware, India *(Jan 2018 – Jun 2018)*

- Optimized memory usage for running applications like SAP HANA
- Used C and C++ for kernel coding

Invited guest speaker Google research RESORC, "Journey beyond 10 minutes" *(May 2021)*

Graduate Teaching Assistant (Jan 2021 – May 2023)

- *Conduct recitations*
- *Grade tests, assign homework and conduct office hours.*
- *Courses taught for Graduate and undergraduate: Programming fundamentals, Discrete Mathematics, Structure Programming and formal methods, Automata and Computability.*