

Aashish Yadavally

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Research Interests

Broadly, I am interested in leveraging AI techniques to eliminate challenges in Software Engineering (AI4SE), specifically to enable partial program analysis and improve security in software systems.

Education

- 2020 – 2024* **University of Texas at Dallas**, Richardson, TX, United States
Ph.D. in Computer Science, Advisor: *Dr. Tien N. Nguyen*
Research: Software Engineering, Artificial Intelligence
- 2018 – 2020 **University of Georgia**, Athens, GA, United States
M.S. in Artificial Intelligence, Advisor: *Dr. Frederick Maier*
- 2014 – 2018 **Indian Institute of Information Technology Vadodara**, Gujarat, India
B.Tech in Computer Science

Honors and Awards

- 2024 Awarded **NSF Travel Grant** for MAPS Workshop 2023.
- 2024 Awarded **ACM SIGSOFT CAPS Travel Grant** of USD 400 for ESEC/FSE 2023.
- 2023 Nomination for **ACM SIGSOFT Distinguished Paper Award** at the 45th IEEE/ACM International Conference on Software Engineering (ICSE 2023).
- 2023 Awarded **ACM SIGSOFT CAPS Travel Grant** of USD 500 for ICSE 2023.
- 2022 **IEEE TCSE Distinguished Paper Award** at the 29th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2022).
- 2021 **First Prize**, Project Dazzle, AI Camp Hackathon

Publications

- ICSE 2024 Yuchen Cai, **Aashish Yadavally**, Abhishek Mishra, Genesis Montejó, and Tien N. Nguyen. 2024. Programming Assistant for Exception Handling with CodeBERT. 46th IEEE/ACM International Conference on Software Engineering. (*To Appear*).
- ESEC/FSE 2023 Yi Li, **Aashish Yadavally**, Jiaying Zhang, Shaohua Wang, and Tien N. Nguyen. 2023. DeMinify: Neural Variable Name Recovery and Type Inference. In 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering.

- ESEC/FSE 2023 Yi Li, **Aashish Yadavally**, Jiaxing Zhang, Shaohua Wang, and Tien N. Nguyen. 2023. Commit-Level, Neural Vulnerability Detection and Assessment. In 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering.
- ICSE 2023 **Aashish Yadavally**, Wenbo Wang, Shaohua Wang, and Tien N. Nguyen. 2023. (Partial) Program Dependence Learning. In 45th IEEE/ACM International Conference on Software Engineering.
★ **Nomination for ACM SIGSOFT Distinguished Paper Award**
- ICSE 2023 Wenbo Wang, Tien N. Nguyen, Shaohua Wang, Yi Li, Jiyuan Zhang, and **Aashish Yadavally**. 2023. DeepVD: Towards Class-Separation Features for Neural Network Vulnerability Detection. In 45th IEEE/ACM International Conference on Software Engineering.
- ASE 2022 Anh Nguyen, **Aashish Yadavally**, and Tien N. Nguyen. 2022. Next Syntactic-Unit Code Completion and Applications. In 37th IEEE/ACM International Conference on Automated Software Engineering: New Ideas and Emerging Results (NIER) Track.
- ASE 2022 Hoan Anh Nguyen, Hung Phan, Samantha Syeda Khairunnesa, Son Nguyen, **Aashish Yadavally**, Shaohua Wang, Hriday Rajan, and Tien N. Nguyen. 2022. A Hybrid Approach for Inference between Behavioral Exception API Documentation and Implementations, and Its Applications. In 37th IEEE/ACM International Conference on Automated Software Engineering.
- SANER 2022 Thang V. Nguyen, **Aashish Yadavally**, and Tien N. Nguyen. 2022. Phrase2Set: Phrase-to-Set Machine Translation and Its Software Engineering Applications. In 29th IEEE International Conference on Software Analysis, Evolution and Reengineering.
★ **IEEE TCSE Distinguished Paper Award**
- MS Thesis **Aashish Yadavally**. 2020. An Exploration of Machine Learning Based Day-Ahead Solar Irradiance Forecasting Methodologies. In University of Georgia ProQuest Dissertations Publishing.

Academic Service

- MSR 2024 **Junior Program Committee, Technical Track**.
International Conference on Mining Software Repositories.
- ICSE 2024 **Program Committee, Artifact Evaluation Track**.
International Conference on Software Engineering
- MSR 2023 **Junior Program Committee, Technical Track**.
International Conference on Mining Software Repositories.

Work Experience

- 2022 – 2024* **Graduate Research Assistant**, *The University of Texas at Dallas*.
Advisor: Dr. Tien N. Nguyen
- 2021 **Data Scientist Intern**, *AI Camp Inc.*.

- 2018 – 2020 **Graduate Research Assistant**, *The University of Georgia*.
Institute for Artificial Intelligence
Advisor: Dr. Frederick Maier, Dr. Khaled Rasheed
- 2018 **Undergraduate Research Assistant**, *IIIT Hyderabad*.
Language Technologies Research Center
Advisor: Dr. Anil Kumar Vuppula

Teaching

- Spring 2021 **Teaching Assistant**, *The University of Texas at Dallas*.
Department of Computer Science
CS 4384 - Automata Theory
- Fall 2020 **Teaching Assistant**, *The University of Texas at Dallas*.
Department of Computer Science
CS 6301 - Convolutional Neural Networks
- Fall 2020 **Teaching Assistant**, *The University of Texas at Dallas*.
Department of Computer Science
CS 3341 - Probability and Statistics in Computer Science and Software Engineering