

Ananth Shreekumar

Ph.D. Candidate, Department of Computer Science
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EDUCATION

Doctor of Philosophy in Computer Science

Purdue University

- Advisors: Dr. Z Berkay Celik, Dr. Dongyan Xu
- GPA : 4.0 / 4.0

Present

West Lafayette, IN

Master of Science in Computer Science

Purdue University

- GPA : 3.93 / 4.0

Dec 2023

West Lafayette, IN

Integrated Master of Technology in Computer Science and Engineering

International Institute of Information Technology Bangalore

- GPA : 3.92 / 4.0

Jul 2021

Bangalore, India

EXPERIENCE

American Express

Software Engineer, Enterprise Architecture Team

- Integrated machine learning to internal logging and monitoring framework to detect anomalies from logs.
- Implemented a pipeline to perform automated log analysis on real-time log data.

Aug 2021 - Dec 2021

Bangalore, India

Siemens Healthineers

Technical Intern, Center for Innovation in Diagnostics Team

- Designed a pipeline to predict Sepsis onset in ICU patients from bedside measurements using deep learning.
- Model performance exceeded 87% on accuracy, F1-score, specificity, and sensitivity metrics.

Jan 2021 - Jul 2021

Bangalore, India

TEACHING EXPERIENCE

Graduate Teaching Assistant

- CS 361 Great Issues in Computer Science, Purdue University.
- CS 529 Security Analytics, Purdue University.
- CS 240 Programming in C, Purdue University.
- CS 352 Compilers: Principles and Practice, Purdue University.
- MA 165 Calculus I, Purdue University.

Spring 2025

Fall 2024

Fall 2023

Spring 2023

Fall 2022

Guest Lecturer

- CS 361 Great Issues in Computer Science, Purdue University.
- CS 529 Security Analytics, Purdue University.

Spring 2025

Fall 2024

PUBLICATIONS

1. Ankit Gupta, Ruchi Chauhan, Saravanan G, and Ananth Shreekumar. 2024. Improving Sepsis Prediction in Intensive Care with SepsisAI: A clinical decision support system with a focus on minimizing false alarms. In *PLOS Digital Health*. doi: [10.1371/journal.pdig.0000569](https://doi.org/10.1371/journal.pdig.0000569)
2. Ananth Shreekumar*, Biswesh Mohapatra*, and Shrisha Rao. 2020. Incorporating Autonomous Bargaining Capabilities into E-Commerce Systems. In *Proceedings of the 20th ACM International Conference on Intelligent Virtual Agents*. doi: [10.1145/3383652.3423865](https://doi.org/10.1145/3383652.3423865)
3. Tarun Dutt, GNS Prasanna, TR Dastidar, and Ananth Shreekumar. 2019. Towards Artifact Rejection in Microscopic Urinalysis. In *Medical Imaging meets NeurIPS 2019 workshop, Neural Information Processing Systems*. [pdf]

TECHNICAL SKILLS

Programming Languages : Python · C++ · C · SQL

Tools : Git · Linux · Shell scripting · Docker · Conda · LaTeX

Data Science and ML : Pytorch · Tensorflow · Scikit-Learn · Pandas · Numpy · Jupyter Notebook

SERVICE

External Reviewer

- The Network and Distributed System Security Symposium 2025.
- IEEE Security and Privacy 2025.

Outreach

- Presented my research to about 20 high school students as part of a 4-H event.