




# Ananth Shreekumar

Graduate Student, Department of Computer Science  
Purdue University

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## Education

### Master of Science in Computer Science

*Purdue University*

• GPA : **4.0** / 4.0

**Dec 2023**

*West Lafayette, IN*

### Integrated Master of Technology in Computer Science and Engineering

*International Institute of Information Technology Bangalore*

• 5 year Bachelor's + Master's program, GPA : **3.92** / 4.0

**Jul 2021**

*Bangalore, India*

## Experience

### American Express

*Software Engineer, Enterprise Architecture Team*

- Integrated **machine learning capabilities** to logging, monitoring, and observability framework.
- Implemented a framework 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 using **deep learning**.
- The model's performance **exceeded 87%** on Accuracy, F1-Score, Specificity, and Sensitivity metrics.

**Jan 2021 - Jul 2021**

*Bangalore, India*

### Purdue University

*Graduate Teaching Assistant*

- CS 352 Compilers: Principles and Practice. Spring 2023. *Department of Computer Science*.
- MA 165 Analytic Geometry and Calculus I. Fall 2022. *Department of Mathematics*.

**Aug 2022 - present**

*West Lafayette, IN*

## Publications

1. [Ananth Shreekumar](#)<sup>\*</sup>, Biswesh Mohapatra<sup>\*</sup>, and Shrisha Rao. Oct 2020. Incorporating Autonomous Bargaining Capabilities into E-Commerce Systems. In *Proceedings of the 20th ACM International Conference on Intelligent Virtual Agents (IVA '20)*. Association for Computing Machinery, NY, USA, Article 51, 1–8. doi: [10.1145/3383652.3423865](https://doi.org/10.1145/3383652.3423865)
2. Tarun Dutt, GNS Prasanna, TR Dastidar, and [Ananth Shreekumar](#). Dec 2019. Towards Artifact Rejection in Microscopic Urinalysis. In *Medical Imaging meets NeurIPS 2019 workshop, 33rd Conference on Neural Information Processing Systems*. Vancouver, Canada. [[pdf](#)]

## Technical Skills

**Programming Languages** : Python · C++ · C

**Tools** : Git · Docker · L<sup>A</sup>T<sub>E</sub>X · Jenkins

**Data Science** : Pytorch · Tensorflow · Scikit-Learn · Pandas · NumPy

**Others** : OpenCV · SQL · Linux

## Selected Projects

### Reinforcement Learning to play the Snake game

- **Tabular Q learning** and **Deep Q learning**.
- Implemented Double DQN and priority sampling improvements.

### Compiler for a variant of C

- Built using C++ and the **LLVM framework**.
- 6 projects culminating in a **fully functional compiler** for a variant of the C language.

### A Bargaining Agent for E-Commerce

- Designed an **E-Commerce Agent** that has the ability to **bargain** with a user.
- [Featured](#) on a [technology.org](#) article.

## Relevant Coursework

- |                    |                          |                     |                      |
|--------------------|--------------------------|---------------------|----------------------|
| • Machine Learning | • Reinforcement Learning | • Computer Networks | • Security Analytics |
| • Algorithms       | • Database Systems       | • Compilers         | • Operating Systems  |