

# ANANTH SHREEKUMAR

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## EDUCATION

### Master of Science in Computer Science

PURDUE UNIVERSITY

• GPA : 4.0 / 4.0

JAN 2022 - PRESENT

WEST LAFAYETTE, IN, USA

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

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE - IIIT-B

• Integrated Bachelor's + Master's program, GPA : 3.92 / 4.0

AUG 2016 - JUL 2021

BANGALORE, INDIA

## EXPERIENCE

### American Express

SOFTWARE ENGINEER

- **Integrating machine learning capabilities** to the logging, monitoring, and observability framework.
- Implemented a framework that performs automated log analysis on **real-time log data**.

AUG 2021 - DEC 2021

BANGALORE, INDIA

### Siemens Healthineers

TECHNICAL INTERN

- Implemented a pipeline to predict the onset of Sepsis in ICU patients using LSTMs.
- The model's performance **exceeded 87% on Accuracy, F1-Score, Specificity, and Sensitivity metrics**.

JAN 2021 - JUL 2021

BANGALORE, INDIA

## PUBLICATIONS

- Ananth Shreekumar, Biswesh Mohapatra, 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)
- Tarun Dutt, G.N.S. Prasanna, T.R. 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

**Data Science** : Pytorch • Tensorflow • Keras • NumPy • Pandas • Matplotlib

**Tools** : Git • Jenkins • Docker • GNUPlot •  $\text{\LaTeX}$

**Others** : SQL • XML • Flask • Linux

## POSITIONS OF RESPONSIBILITY

### Student Mentor

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE

- Mentor to a group of freshmen as part of the institute's student mentorship program.

NOV 2020 - JUL 2021

### Teaching Assistant - Mathematics for Machine Learning

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, BANGALORE

- **Graduate level course** with a focus on linear algebra, convex optimization, and random walks and Markov chains.
- Responsibilities included handling tutorial classes and problem solving sessions, and evaluating answer scripts.

AUG 2019 - DEC 2019

## SELECTED PROJECTS

For a complete list, please visit my [PORTFOLIO](#)

### A Bargaining Agent for E-Commerce

[PROF. SHRISHA RAO](#)

- Implementation of an E-Commerce Agent that has the ability to bargain with a user.
- Involves offering discounts, recommending product bundles, and evaluating counter-offers made by the user.
- Work accepted as a full paper at the **20th ACM International Conference on Intelligent Virtual Agents (IVA'20)**.

AUG 2019 - DEC 2019

IIIT-B

### University Simple C

CS 502 - COMPILING AND PROGRAMMING SYSTEMS

- A **graduate course** on compiler design and implementation using the **LLVM framework** and C++.
- 6 projects across the semester culminating in a **fully functional compiler** for a variant of C, University Simple C.

JAN 2022 - APR 2022

PURDUE

### Reinforcement Learning to play the Snake game

🔗 [CODE](#)

CS 59300-RL - REINFORCEMENT LEARNING

- **Tabular Q learning** and **Deep Q learning** with double DQN and priority sampling improvements.

JAN 2022 - APR 2022

PURDUE