

# ANANTH SHREEKUMAR

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## EDUCATION

**Master of Science in Computer Science**  
PURDUE UNIVERSITY

JAN 2022 - PRESENT  
WEST LAFAYETTE, IN, USA

**Integrated Master of Technology in Computer Science and Engineering**  
INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE  
• Integrated Bachelor's + Master's program, CGPA : **3.92 / 4.0**

AUG 2016 - JUL 2021  
BANGALORE, INDIA

## EXPERIENCE

**American Express**  
SOFTWARE ENGINEER

AUG 2021 - DEC 2021  
BANGALORE, INDIA

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

**Siemens Healthineers**  
TECHNICAL INTERN

JAN 2021 - JUL 2021  
BANGALORE, INDIA

- 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**.

## 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 • Scikit-Learn • Tensorflow • Keras

**Tools** : Git • Jenkins • Docker •  $\LaTeX$   
**Others** : SQL • XML • Flask • Linux

## SELECTED PROJECTS

**A Bargaining Agent for E-Commerce**  
[PROF. SHRISHA RAO](#)

AUG 2019 - DEC 2019

- 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)**.

**Open Set Recognition Methods for Microscopic Urinalysis**  
[PROF. G N SRINIVASA PRASANNA](#)

JAN 2019 - JUL 2019

- Open Set Recognition methods that accurately classify in-class samples and reject out-of-class samples.
- Created a novel approach that **increased rejection accuracy by 10%** while maintaining **positive class accuracy at 85%**.
- Work accepted at the **Medical Imaging meets NeurIPS 2019 workshop, 33rd Conference on NeurIPS**.

**Privacy-Aware Dynamic Access Control Mechanism for Electronic Health Records**  
[PROF. T K SRIKANTH](#)

SEP 2020 - DEC 2020

- Consent-based data-sharing of e-health data constrained by purpose and activity.
- Implementation of a prototype that supports privacy preserving operations in a distributed healthcare ecosystem.

**A Column Store Database**  [CODE](#)  
[PROF. CHANDRASHEKAR RAMANATHAN](#)

APR 2020 - MAY 2020

- Implemented a schema in XMLSchema for Relational Database schemas.
- Implemented classes that parse the schema instance and create required tables, views, and add constraints.

## RELEVANT COURSEWORK

- Machine Learning
- Reinforcement Learning
- Mathematics for Machine Learning
- Visual Recognition
- Data Structures and Algorithms
- Data Modeling