Ananth Shreekumar

✉ ananthshreekumar@gmail.com
🌐 thiswasnttaken.github.io
 github.com/ThisWasntTaken

EDUCATION

Integrated Master of Technology in Computer Science and Engineering   AUG 2016 - PRESENT

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE

- Bachelor's + Master's degrees, Current CGPA : **3.92 / 4.0**
- Integrated 5 year program, Expected Graduation : JULY, 2021

RESEARCH EXPERIENCE

Prediction of Sepsis Onset   JAN 2021 - PRESENT

TECHNICAL INTERN   SIEMENS HEALTHINEERS, BANGALORE, INDIA

- Implementation of a machine learning model to predict the onset of Sepsis.

A Bargaining Agent for E-Commerce   AUG 2019 - DEC 2019

PROF. SHRISHA RAO

- Implementation of an E-Commerce Agent that has the ability to bargain with a user.
- Invloves offering discounts, recommending product bundles, and evaluating counter-offers made by the user.
- Featured in an article in www.technology.org.
- 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   JAN 2019 - JUL 2019

PROF. G N SRINIVASA PRASANNA

- 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.

PUBLICATIONS

- 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 (IVA '20)*. Association for Computing Machinery, NY, USA, Article 51, 1–8. DOI:https://doi.org/10.1145/3383652.3423865

- Tarun Dutt, G.N.S. Prasanna, T.R. Dastidar, and Ananth Shreekumar. 2019. Towards Artifact Rejection in Microscopic Urinalysis. In *Medical Imaging meets NeurIPS 2019 workshop, 33rd Conference on Neural Information Processing Systems*. Vancouver, Canada. [PDF]

MEDIA MENTIONS

- Article "Automated negotiation agent for e-commerce" in www.technology.org

PRESENTATIONS & WORKSHOPS

20th ACM International Conference on Intelligent Virtual Agents   OCT 2020

ACM

- Oral and poster presentations of our paper *Incorporating Autonomous Bargaining Capabilities into E-Commerce Systems*.

Global Leader Experience, Bangalore   DEC 2019

COMMON PURPOSE

- Week-long program designed to build leadership and team working skills and to develop Cultural Intelligence.
- Worked with students of **King's Business School, London** to propose a novel solution for the waste disposal problem.

POSITIONS OF RESPONSIBILITY

Student Mentor   NOV 2020 - PRESENT

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE

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

Student Ambassador   SEP 2020 - NOV 2020

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE

- Promoted my institute on official channels as well as on social media.
- Provided support, encouragement and advice to prospective students.

Teaching Assistant   AUG 2019 - DEC 2019

MATHEMATICS FOR MACHINE LEARNING   PROF. AMIT CHATTOPADHYAY

- Responsibilities included handling tutorial classes, problem solving sessions, and evaluating answer scripts.

SELECTED PROJECTS

Privacy-Aware Dynamic Access Control Mechanism for Electronic Health Records   SEP 2020 - PRESENT

PROF. T K SRIKANTH

- 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.

The Mapper Algorithm • ⭘ **Code**   MAR 2020 - APR 2020

CS/DS 815 - TOPOLOGICAL DATA ANALYSIS   PROF. AMIT CHATTOPADHYAY

- Implemented the Mapper algorithm from Computational Topology.

A Column Store Database • ⭘ **Code**   APR 2020 - MAY 2020

DS 603 - DATA MODELING   PROF. CHANDRASHEKAR RAMANATHAN

- Implemented a schema in XMLSchema for Relational Database schemas at a meta-meta-data level.
- Implemented classes that parse an XML instance and create required tables, views and add appropriate constraints.

TECHNICAL SKILLS

Programming Languages : Python • C++ • C   **Tools** : Git • Jenkins • Docker • GNUPlot • LaTeX
Data Science : Pytorch • Scikit-Learn • Tensorflow • Keras   **Others** : SQL • XML • Flask • Linux

HONORS AND AWARDS

Member of the Dean's Merit List at IIIT-Bangalore for outstanding academic performance.   2016 - PRESENT
Huawei Merit Scholarship   2019
IIIT-Bangalore Institute Merit Scholarship   2017, 18

TEST SCORES

GRE : Verbal : 160 / 170, Quantitative : 168 / 170, Analytical Writing : 5.0 / 6.0
TOEFL : Overall : 115 / 120 - Reading : 30 / 30, Listening : 29 / 30, Speaking : 28 / 30, Writing : 28 / 30