

ANANTH SHREEKUMAR

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EDUCATION

Integrated Master of Technology in Computer Science

AUG 2016 - PRESENT

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY - BANGALORE (IIIT-B)

• 8th Semester Student, CGPA : 3.9 / 4.0

[\[TRANSCRIPT\]](#)

• 5 year program, Expected Graduation : July, 2021

EXPERIENCE

Research Intern - Open Set Recognition Methods for Microscopic Urinalysis

JAN 2019 - JUL 2019

COMPUTATIONAL SCIENCES LABORATORY - IIIT-B

PROF. G N SRINIVASA PRASANNA

- Open Set Recognition methods that accurately classify in-class (positive) samples and reject out-of-class samples.
- Implementation of the existing technique OpenMax as an application on this dataset.
- Created a novel approach that increased rejection accuracy by 10% while maintaining positive class accuracy at 85%.
- Work included in a paper that was accepted at the **Medical Imaging meets NeurIPS 2019 workshop, 33rd Conference on NeurIPS**.

PUBLICATIONS

- Tarun Dutt, G.N.S. Prasanna, T.R. Dastidar, and Ananth Shreekumar. *Towards Artifact Rejection in Microscopic Urinalysis*. Medical Imaging meets NeurIPS 2019 workshop, 33rd Conference on Neural Information Processing Systems. [\[PDF\]](#)
- Ananth Shreekumar*, Biswesh Mohapatra*, and Srisha Rao. *Incorporating Autonomous Bargaining Capabilities into E-Commerce Systems*. 20th ACM International Conference on Intelligent Virtual Agents. [Accepted]

PROJECTS

E-Commerce Bargaining Agent

AUG 2019 - JUL 2020

7TH SEMESTER - ARTIFICIAL INTELLIGENCE COURSE

PROF. SHRISHA RAO

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

Mapper - Computational Topology

MAR 2020 - APR 2020

8TH SEMESTER - TOPOLOGICAL DATA ANALYSIS COURSE

PROF. AMIT CHATTOPADHYAY

- Implemented the Mapper algorithm from Computational Topology.
- Involves dimensionality-reduction that requires implementing a variable number of loops, which is solved by looping within recursion.

[🔗CODE](#)

A Column Store database

APR 2020 - MAY 2020

8TH SEMESTER - DATA MODELING COURSE

PROF. CHANDRASHEKAR RAMANATHAN

- Implemented a schema in XMLSchema for Relational Database schemas. This required working at a meta-meta-data level.
- Implemented Schema Extractor and Schema Loader classes, that parse an XML instance of the above XMLSchema and create required Tables, Views and add the appropriate Entity-Integrity Constraints and Referential Integrity Constraints.

[🔗CODE](#)

EXTRA-CURRICULARS

Global Leader Experience, Bangalore

DEC, 2019

CONDUCTED BY COMMON PURPOSE

- This week-long program was designed to build leadership and team working skills and to develop Cultural Intelligence.
- The theme: "How do you ensure that technological innovation provides economic as well as social value in cities?"
- Worked with students from **King's Business School, London** to provide a solution for a complex problem in Bangalore.

TECHNICAL SKILLS

Programming Languages : Python • C++ • C

Tools : Git • Jenkins • Docker • GNUPlot • \LaTeX

Data Science : Pytorch • Scikit-Learn • Tensorflow • Keras • OpenAI-Gym

Others : SQL • XML • Linux • MS Excel