

EDUCATION -

Integrated Master of Technology in Computer Science

Aug 2016 —

• 9th Semester Student, CGPA: 3.91 / 4.0

• 5 year program, Expected Graduation: July, 2021

[TRANSCRIPT]

EXPERIENCE

Research Intern - Open Set Recognition Methods for Microscopic Urinalysis

Jan 2019 - Jul 2019

- Open Set Recognition methods that accurately classify in-class (positive) 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 included in a paper that was accepted at the Medical Imaging meets NeurIPS 2019 workshop, 33rd Conference on NeurIPS.

Teaching Assistant - Mathematics for Machine Learning course

Aug 2019 - Dec 2019

• Responsibilities included handling tutorial classes, problem solving sessions and exam paper evaluation.

PUBLICATIONS —

- Ananth Shreekumar*, Biswesh Mohapatra*, and Srisha Rao. Incorporating Autonomous Bargaining Capabilities into E-Commerce Systems.
 20th ACM International Conference on Intelligent Virtual Agents.
- 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.

ACHIEVEMENTS.

Selected for Dean's Merit List at IIIT-B for outstanding academic performance.

2017 —

All India IIT-JEE Main Examination - 99.39 percentile.

2016

Karnataka State Common Entrance Test - Rank 98 / approx. 120,000 candidates.

2016

PROJECTS.

E-Commerce Bargaining Agent

Aug 2019 - Jul 2020

- 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..
- Work accepted as a full paper at the 20th ACM International Conference on Intelligent Virtual Agents (IVA'20).

The Mapper Algorithm

Mar 2020 - Apr 2020

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

CODE

A Column Store Database

Apr 2020 - May 2020

- 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

Bangalore Metropolitan Transport Corporation - Cost Minimization

JAN 2018 - MAR 2018

- Optimization of the Bangalore Metropolitan Transport Corporation bus schedule to minimize their cost of operation.
- Constraints included a time table and the number of buses along a route.

EXTRA-CURRICULARS ..

Global Leader Experience, Bangalore

DEC, 2019

- This week-long program was designed to build leadership and team working skills and to develop Cultural Intelligence.
- · Worked with students from King's Business School, London to provide a solution for the waste disposal problem in Bangalore.

TECHNICAL SKILLS _

Programming Languages: Python • C++ • C

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

 $\textbf{Tools}: \mathsf{Git} \bullet \mathsf{Jenkins} \bullet \mathsf{Docker} \bullet \mathsf{GNUPlot} \bullet \LaTeX$

Others: SQL • XML • Linux • MS Excel

August 13, 2020



