

# ANANTH SHREEKUMAR

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## EDUCATION

### Integrated Master of Technology - Computer Science

AUG 2016 - PRESENT

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

- 7th Semester Student, CGPA : 3.88 / 4.0
- 5 year program, Expected Graduation : July, 2021

🔗 TRANSCRIPT

## EXPERIENCE

### Teaching Assistant

AUG 2019 - PRESENT

MATHEMATICS FOR MACHINE LEARNING - IIIT-B

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

### Research Intern - Open Set Recognition Methods for Urine Sample Analysis

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.
- Positive classes : bacteria, crystal, epithelial-cast, RBCs, RBC clumps, WBCs, WBC clumps, yeast.
- All other images are considered to be artifacts and should be rejected.
- Implementation of the technique OpenMax as an application to this dataset.
- Created a novel approach that performed well on this dataset : classification of an artifact varies highly when its image is center-cropped with varying sizes. This distinguishes an artifact from a positive class sample as the latter is classified consistently into the same positive class.

## PROJECTS

### E-Commerce Bargaining Agent

AUG 2019 - PRESENT

7TH SEMESTER - ARTIFICIAL INTELLIGENCE COURSE

PROF. SHRISHA RAO

- Implementation of an E-Commerce Agent that will ultimately have the ability to bargain with a user by offering discounts and recommending product bundles, while also being able to evaluate counter-offers made by the user.
- Currently built a skeleton framework on which tests and experiments can be run.

### Toxic Comments Classification

SEP 2018 - NOV 2018

5TH SEMESTER - MACHINE LEARNING COURSE

PROF. G SRINIVASARAGHAVAN

- Multi-label machine learning classifier that can classify comments found online into one or many of the classes that denote different types and levels of vituperation.
- Training included various Machine Learning methods and their ensembles, and blending and stacking.

### Bangalore Metropolitan Transport Corporation - Cost Minimization

JAN 2018 - MAR 2018

PROJECT INTERN - IIIT-B

PROF. V N MURALIDHARA

- Optimization of the Bangalore Metropolitan Transport Corporation bus schedule to minimize cost of operation.
- Constraints included a strict time table while maintaining the number of buses along a route.
- The overall cost of operation was calculated from the salaries of the various worker roles.

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

## TECHNICAL SKILLS

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**Programming Languages :** Python • C • C++

**Data Science :** Numpy • Scikit-Learn • Tensorflow • Keras

**Tools :** Git •  $\text{\LaTeX}$  • OpenCV

**Basic :** SQL • Linux • Web Dev.

## COURSE WORK

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**Theory and Systems :** Data Structures and Algorithms • Introduction to Automata Theory and Computability • Operating Systems • Database Systems • Programming Languages • Software Engineering

**Data Science and AI :** Machine Learning • Automatic Speech Recognition • Visual Recognition • Artificial Intelligence • Reinforcement Learning

**Mathematics :** Linear Algebra • Convex Optimization • Discrete Mathematics • Probability Theory

**Others :** Digital Design • Signals and Systems • Computer Architecture • Computer Networks

## ACHIEVEMENTS

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Selected for **Dean's Merit List** at IIIT-B for three consecutive years.

2017 - 2019

Received **Merit Scholarship** at IIIT-B for two consecutive years.

2017 - 2018

All India IIT-JEE Mains Examination - **Rank 10,868** out of about 1.2 Million students.

2016

**Pratibha Puraskara** award by the local community for academic excellence.

2014

**National Rank Winner** of the 2nd International Level Science Talent Search Exam.

2007

## HOBBIES AND INTERESTS

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### Linux

I am an Arch Linux enthusiast and I spend a few hours a month customizing my installation.



### 日本語 (Japanese)

Learning Japanese using the Genki Textbooks and Anki App. Currently able to read and write ひらがな and カタカナ, trying to pick up 漢字.

### Table Tennis

Participated in many local and inter-school tournaments.