

# Anirudh Ambati

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## EDUCATION

### INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, SRI CITY

Computer Science and Engineering  
B.Tech with Honors  
2017 - 2021 CGPA: 8.2

#### Interesting courses:

IT Workshops  
Cyber-physical Embedded systems  
Enterprise Application Development  
Agent based modelling and analysis  
Applied software engineering

### BIIT JUNIOR COLLEGE

class 11 and 12  
2015 - 2017 Percentage: 97.2

### BHASHYAM HIGH SCHOOL

Class 10  
2015 GPA: 9.7

## EXPERIENCE

### Computer Vision Intern - RoundSqr

May - June 2019

Work role was to develop a grocery detection application prototype for BigBasket (Indian Unicorn startup) for which I worked on various object detection models (like SSD+Squeezenet) and researched on object classification with CapsuleNets and proposed, experimented on a much efficient architecture based on Siamese Networks.

### President - Project's Club, IIITS

Oct 2018 - Mar 2020

Found and led IOTA, project club of IIITS with over 200 members. Apart from daily operations and planning activities, I was responsible for project acquisition, where I closely worked with various high impact startups in India and the USA to get more than 12 projects in the first semester and worked closely with the development teams at the club.

### Elected Representative - IIITS Academic Council

2018 - 2019

Was elected as a student representative at the institute's academic council, which designs the curriculum and coordinates academics. I had a great opportunity coordinating between faculty, students and the administration learning lots of nuances in education and policy.

## PROJECTS

### HEUTAGOGY LMS

A heutagogy based learning management system with focus on self determined, gamified and adaptive learning. Designed and led the project, built the database and the backend for the system.

Exhibited at UNESCO TECH 2019, got adopted by AP State government in 200+ primary schools and being scaled up for 5500+ schools across India.

### CLASSROOM SIMULATION

An agent based modelling tool to simulate and learn peer learning, student-student and student-teacher interaction in a classroom setting. The tool will help experiment with and understand peer learning with strategies and learning material types.

## RESEARCH ROLES

### Honors Project

I am an undergraduate researcher at computer vision group at our institute, researching on colon cancer-cell recognition, covid-19 detection under Dr Shiv Ram Dubey. I have achieved 1.3% improved accuracy with smaller training dataset for covid-19. I am going to publish a research paper on this soon.

### Independent Research

Working on a novel Capsule Networks based object detection that has better rotational and pose invariance. By using capsule networks in object recognition improved average rotational invariance (-90° to +90°) by 2.7% and 8.1% in images with -45° to +45° rotation.

## SKILLS

Deep Learning	Python, C, C++	Education Policy
Computer Vision	Tensorflow	Leadership
Web Development	Keras	Ethics in AI
Blockchain	OpenAI gym	Product designing

## CONTACT

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## ADDRESS

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