

# Soham Chitnis

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## Summary

Currently a Sophomore in Computer Science at Birla Institute of Technology and Science, K.K Birla Goa Campus. I have worked on Computer Vision and Reinforcement Learning projects. I am interested in gaining experience in Machine Learning and Deep Learning. I like to explore the automation in Robotics.

## Education

### Birla Institute of Science and Technology

Goa, India

B.E(HONS.) IN COMPUTER SCIENCE

Oct. 2020 -Present

- **CGPA** - 8.69/10
- **Relevant Completed Coursework:** Computer Programming, Linear Algebra, Probability and Statistics, Calculus, Object-Oriented Programming, Database Systems, Data Structures and Algorithms
- **Teaching Assistant:** Computer Programming

## Projects

- **Adversarial deep Learning - (Code):** -Worked as Contributor to this Project. This project is a part of a book being written of same name where this project involves tutorials and implementation for the book.
- **RAIN-Robot Automation Indoor Navigation:** Worked on Perception of the robot using semantic segmentation. This project is building stack for the robot Trotbot for indoor navigation which involves three components Perception, Localization and Planning.
- **Project Kratos:** - This project is about building a Mars Rover for the University Rover Challenges. Worked on Rock analysis using Computer Vision
- **Comparative Study of Reward functions on Policy gradient (Code):** -This is an independent project where I have done comparative study on reward functions in Policy Gradient with Gaussian Distribution
- **SAIDL Assignment (Code):** - This was submission for the assignment by the Society of Artificial Intelligence and Deep Learning a club from the College.

## Certifications

2021	<b>Neural Networks and Deep Learning</b> , Coursera	Online
2021	<b>Introduction to Deep learning</b> , Quark BITS Goa	Online
2021	<b>Fundamentals of Deep learning</b> , NVIDIA Deep Learning Institute	Online
2021	<b>Machine Learning</b> , Coursera	Online
2022	<b>Building Transformer-Based Natural Language Processing Applications</b> , NVIDIA Deep Learning Institute	Online
2022	<b>Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization</b> , Coursera	Online
2022	<b>CS231n-Convolutional Neural Networks for Visual Recognition</b> , Stanford	Online

## Tech-Stack

- **Languages:** Python, C/C++, Java
- **Toolkits:** Numpy, Scipy, OpenCV, PyTorch, Tensorflow, Keras, Matplotlib, Pandas, Scikit-Learn, HTML, CSS

## Honors & Awards

2021	<b>Silver Prize</b> , CTE ML Hackathon	Goa, India
2020	<b>100 percentile</b> , MHT-CET	Mumbai, India
2017	<b>Silver Medal</b> , Dr. Homi Bhabha Balvaidnyanik Competition	Mumbai, India

## Committees

2022	<b>Member</b> , Society for Artificial Intelligence and Deep Learning	Goa, India
2021	<b>Core Member</b> , Electronics and Robotics Club	Goa, India
2021	<b>Core Member, Life Detection</b> , Project Kratos	Goa, India