

Soham Chitnis

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Summary

Currently a Pre-final year student at Birla Institute of Technology and Science, K.K Birla Goa Campus pursuing Computer Science. I have worked on Computer Vision and Reinforcement Learning projects. I am looking to collaborate on Open-source and Research Projects.

Education

Birla Institute of Technology and Science

Goa, India

B.E(HONS.) IN COMPUTER SCIENCE, MINOR IN DATA SCIENCE

Oct. 2020 - Present

- **CGPA** - 8.5/10
- **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

- **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
- **Implementation of Super-Resolution ResNet(SRResNet) and Super-Resolution CNN(SRCNN) (Code):** This is an implementation of *Image Super-Resolution Using Deep Convolutional Networks* and *Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network*
- **Bayesian Neural Network for Noisy XOR using Markov Chain Monte Carlo (Code)**
- **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. [Website](#)
- **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.

Research Experience

Central Electronics Engineering Research Institute (CSIR-CEERI)

Chennai, India

RESEARCH INTERN

May. 2022 - Present

- **Project:** Hyperspectral Imaging for polymer characterisation

APPCAIR, BITS Pilani

Goa, India

UNDERGRADUATE RESEARCHER

Feb. 2022 - Present

- **Project:** Molecule Generation using Deep Graph Generators

Certifications

2022	Deep Learning Specialization , DeepLearning.AI	Online
2022	CS231n-Convolutional Neural Networks for Visual Recognition , Stanford	Online
2022	Building Transformer-Based Natural Language Processing Applications , NVIDIA Deep Learning Institute	Online
2021	Machine Learning , Coursera	Online
2021	Fundamentals of Deep learning , NVIDIA Deep Learning Institute	Online

Skills

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

Honors & Awards

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

Committees

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