

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

August 2021

CODE

- Conducted a comparative study on reward functions in Policy Gradient with Gaussian Distribution

Implementation of Super-Resolution ResNet(SRResNet) & Super-Resolution CNN(SRCNN)

March 2022

CODE

- This is an implementation of *Image Super-Resolution Using Deep Convolutional Networks & Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network*

Bayesian Neural Network for Noisy XOR using Markov Chain Monte Carlo

March 2022

CODE

- Implemented Bayesian Neural Network using No-U-turn Sampler

Project Kratos

August 2021-Present

WEBSITE

- Building a Mars Rover for the University Rover Challenge (URC). Worked on Rock analysis using Computer Vision.
- Built a Computer Vision Model for detecting presence of life in rock samples

Adversarial Deep Learning

September - December 2021

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 | [CODE](#)

May. 2022 - Present

- **Project:** Hyperspectral Imaging for polymer characterisation
- Developing deep learning classification techniques for Hyperspectral Images for plastic segregation to recycle. Conducting data pre-processing and benchmarking models
- **Supervisor:** Dr. Madan Kumar Lakshmanan

- **Project:** Molecule Generation using Deep Graph Generators
- Generated Molecules using deep graph generators like Variational Graph Autoencoders
- **Supervisor:** Dr. Tirtharaj Dash

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, Julia
- **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