Sangeet Kumar Mishra

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Work Experience

Google Summer of Code 2018 Mercurial, Python Software Foundation — Summer 2018

Improving and Fixing grep of Mercurial SCM Mentor: Yuya Nishara and Pulkit Goyal
Fixed and improvised the grepping system of Mercurial as per the Grep Plan |
Wrote properly tested codes using shell-script driven regression tests
GSoC Blog Posts | GSoC Proposal

Machine Learning Team Autonomous Underwater Vehicles, IIT Kharagpur — Feb 2017 - Dec 2018

Machine Learning, Computer Vision, Robotics Guide: Dr CS Kumar
Implemented CA-CIFAR algorithm and HSV Thresholding to detect underwater objects
Implemented real time underwater buoy detection using SSD and Mobile Nets
Made the inference of models lightweight and suitable for the bot using Movidius Neural Computing Stick

Software Developer Octobus — Sept 2018 - Present

Vesional Control, Software Development https://octobus.net/
Contributing to the development of Evolve extension

Executive Head Kharagpur Open Source Society,IIT Kharagpur — October 2017 - Present

Spreading Open Source awareness in the campus Guide: Dr Anmesh Mukherjee
Contributed to the development of KWoC 2017 Website with more than 2700 registrations KWoC 2017
Mentored students in Kharagpur Winter of Code 2017 :

Skills

- Languages: Python, C/C++, SQL, JavaScript, Go
- Platform: Linux, Windows
- Robotics and Machine Learning: TensorFlow, Scikit Learn, PyTorch, Keras, ROS, OpenCV

Projects

Semantic Segmentation using Recurrent Convolutional Neural Networks

Guide: Dr Debdoot Sheet
Worked on using Recurrent Convolutional Networks to perform semantic segmentation of an Image.

Other Projects I spend some time working on small projects hosted on GitHub.

- Synisto : A Collaborative Filtering based application to suggest movie to users on MovieLens 1M dataset — GitHub
- Sign Language Detection : A Deep Neural Network based program to detect hand signs from 0 to 5 — GitHub
- K Means Compressor : KMeans Clustering based compression which achieves a 6 times reduction in size — GitHub

Education

Indian Institute of Technology (IIT) Kharagpur, West Bengal, India — 2016 – 2020 (Expected)

Undergraduate Major in Civil Engineering
Relevant Courses:
|· Programming and Data Structures |· Probability and Statistics |· Design and Analysis of Algorithms|· Deep Learning Specialization

Achievements

- Secured First Position in Xilinx Innovation Challenge 2019
- Qualified for the Final Round of Smart India Hackathon 2019

Extra Circulars

- More than 80 hours of dedicated community service via National Service Scheme - IIT Kharagpur
- Secured Silver in Biz Quiz General Championship 2017 and represented LBS Hall of Residence
- Participated in General Championship Eastern Vocals 2017