Sangeet Kumar Mishra

✉ sangeet@iitkgp.ac.in · 📞 (+91) 747-801-7666 · ⌨ sangeet259 · ⚭ sangeetmishra.me

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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

Created patches to fix and improvise the grepping/searching system of Mercurial as per the Grep Plan |
GSoC Blog Posts | GSoC Proposal

Software Developer Autonomous Underwater Vehicles, IIT Kharagpur   Feb 2017 - Present

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

Working on making the inference of models lightweight and suitable for the bot using Movidius NCS

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 : Generative Adversarial Networks

Successfully Conducted the first ever Open Source Summit during Kshitij 2018

Image Processing and ML Team Member AgNEXT Technologies,IIT Kharagpur   October 2017 - March 2018

Pest Detection   Mentor: Mrigank Sharad

Segmentation and Localization of region affected by pests on crops

Projects

Semantic Segmentation using Recurrent Convolutional Networks

Guide: Dr Debdoot Sheet

Currently Working 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

Skills

- Languages: Python, JavaScript, C/C++
- Platform: Linux
- Computer Vision, Robotics and Machine Learning: TensorFlow, TFLearn, Scikit Learn, PyTorch, Keras, ROS, OpenCV

Education

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

Undergraduate Major in Civil Engineering,

Relevant Courses : Programming and Data Strcutures, Algorithms and Data Structures MOOC, CS231n MOOC, Deep Learning Specialization MOOC

Extra Circulars

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