Sangeet Kumar Mishra

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Work Experience

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

Student Devloper
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

Google Summer of Code 2019 Mercurial, Python Software Foundation Summer 2019

Mentor
Navaneeth Suresh and Taapas Aggarwal
Implement continue and abort command : Link
Add functionality to store an unresolved merge-state : Link

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.

VySyBl
- Developed a Blind Assistant System on Xilinx PYNQ Board.
- Won 1st Prize in Xilinx Innovation Challenge 2019

AudAn
- Worked on using Cognitive Analysis of students in a classroom to evaluate their performance.
- Qualified to Top 6 Nationally in the AI for Education theme in Smart India Hackathon 2019 by Govt. of India

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

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