

SANGEET KUMAR MISHRA

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Open Source Evangelist. Interest in Maths, Programming and Quantitative Finance

EDUCATION

Indian Institute of Technology (IIT) Kharagpur, West Bengal, India 2016 – 2020
Bachelors in Technology (Hons.) Civil Engineering

WORK EXPERIENCE

Quantitative Research Analyst JP Morgan Chase and Co. Jul'20 - Present
- Working on Ongoing Performance Monitoring and Back Testing of CCAR and CECL Models in Wholesale Credit

Data Analyst and Visualization Intern Anheuser-Busch InBev May'19 - Jul'19
- Built an automated Data Visualization pipeline from the Data Lake using Python Scripting and SQL Queries
- Brought insights from the employees data and built tool to identify relevant clusters of concern
- Used Machine Learning models like Random Forests to find major drivers for Employee Attrition in the organization

Google Summer of Code 2018 | Student Developer | Python Software Foundation Summer '18
- Fixed and improvised the grepping system of Mercurial to add '--all' flag and 'grep' on history as per the Grep Plan
- Wrote properly tested codes using shell-script driven regression tests
- Improved functionality of 'diff' in Mercurial to show colorised in-line diff and better 'diff' output of tests suite results

Autonomous Underwater Vehicles | Software Team, ML and Vision Feb'17 - Mar'18
- Implemented a real time adaptive CA-CIFAR algorithm and HSV Thresholding on bot to detect underwater objects
- Implemented Deep Learning methods for buoy detection using Single Shot Multi Box Detector and Mobile Nets
- Made the inference of models fast and suitable for the bot using Movidius Neural Compute Stick and reduced the cost

VOLUNTEER EXPERIENCE

Google Summer of Code 2019 | Mentor Mercurial, Python Software Foundation Summer 2019
- Mentored and helped the students new to Mercurial codebase getting familiar with it.
- Helped them bond with the Mercurial developers community, and resolved their technical and non-technical issues.

Kharagpur Open Source Society | Advisor and Former Executive Head Oct'17 - Present
- 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 and in Kshitij 2019

SKILLS AND EXPERTISE

- **Skills:** Software Development, Data Science/ ML, Leadership, Linux, Docker, Git/ Mercurial, DBMS/ NoSQL
- **Languages:** Python, C, C++, JavaScript
- **Libraries:** TensorFlow, Scikit Learn, PyTorch, Keras, ROS, OpenCV, FastAI, Flask

PROJECTS

AudAn: Smart India Hackathon

- Developed AudAn, a web based app doing 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

Semantic Segmentation using Recurrent Convolutional Neural Networks

- Implemented research papers of GAN, DCGAN and GANs for Semantic Segmentation from scratch in Pytorch
- Developed Recurrent Convolutional Networks to perform semantic segmentation of an Image.

VySyBI

- Developed a Blind Assistant System on Xilinx PYNQ Board by building an Image Captioning and TTS pipeline
- Won 1st Prize in Xilinx Innovation Challenge 2019 among 11 different engineering institutes across India in KTJ'19

Other Projects : 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](#)