SANGEET KUMAR MISHRA

✉ mail2sangeetmishra@gmail.com · ☎ (+91) 747-801-7666 · ⌂ sangeet259 · ⌘ sangeet259.github.io
.

WORK EXPERIENCE

Data Analyst and Visualization Intern Anheuser-Busch InBev   May 2019 - Jul 2019

People Business Solutions, GCC

- 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 Mercurial, Python Software Foundation   Summer 2018

Student Developer   Mentor: Yuya Nishihara and Pulkit Goyal

- 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

GSoC Blog Posts | GSoC Proposal

Autonomous Underwater Vehicles Machine Learning and Computer Vision   Feb 2017 - Mar 2018

Software Team   Guide: Dr CS Kumar

- 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

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

Mentor

- 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.

Advisor Kharagpur Open Source Society,IIT Kharagpur   October 2017 - Present

Spreading Open Source awareness in the campus

- 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

Semantic Segmentation using Recurrent Convolutional Neural Networks

- Worked under guidance of Dr Debdoot Sheet under Signal and Image Processing Lab, IIT Kharagpur
- Developed Recurrent Convolutional Networks to perform semantic segmentation of an Image.

VySyBl

- 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

AudAn

- Developed AudAn, a web based application 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

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 -Machine Learning

EXTRA CIRCULARS

- **Socaial Service** More than 80 hours of dedicated community service via National Service Scheme - IIT Kharagpur
- **Quizzing** Secured Silver in General Championship 2017   Participated in Zonal Level Quizzes in School
- **Guitarist and Vocalist** Represented VS Hall of Residence in Inter Hall Easter Vocals 2017