SANGEET KUMAR MISHRA

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

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
- SQL for Data Analytics

WORK EXPERIENCE

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
GSoC Blog Posts | GSoC Proposal

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.

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

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

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 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

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

EXTRA CIRCULARS

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