SANGEET KUMAR MISHRA

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EDUCATION

Indian Institute of Technology Kharagpur *July 2016 - Present*
Undergraduate Overall GPA: 8.13/10
Department of Civil Engineering

Kendriya Vidyalaya No 1, Bhubaneswar *July 2014- May 2016*
Intermediate in Science Percentage: 90.1
Central Board Of Secondary Education

DAV Public School, Sector 4, Bokaro *April 2003 - May 2014*
Matriculation Overall GPA: 10
Central Board Of Secondary Education

TECHNICAL STRENGTHS

Programming Languages	C/C++,Python,JavaScript, MATLAB/Octave
Web Technologies	HTML, CSS
Libraries	ROS, OpenCV
Machine Learning	TensorFlow, TFLearn, Scikit Learn, PyTorch

EXPERIENCE

Autonomous Underwater Vehicles ,IIT Kharagpur February 2017 - Present
***Guided By** : Prof. C.S. Kumar* *Software Team member*

· Implemented CA-CIFAR algorithm and HSV Thresholding to detect underwater objects
· Implementing Mission Planner for Kraken 4.0 on ROS using actionlib and smach
· Implementing Faster-RCNN for real time object detection of buoy

AgNEXT Technologies,IIT Kharagpur October 2017 - Present
***Guided By** : Prof. Mrigank Sharad* *Machine Learning and Image Processing Team Member*

· Segmentation of region affected by pests on crops
· Classification of pests to help the farmers take better medicative or preventive steps

Kharagpur Open Source Society,IIT Kharagpur October 2017 - Present
***Guide** : Prof. Animesh Mukherjee* *Core Team Member*

· Contributed to the development of KWoC 2017 Website
· Mentored students in Kharagpur Winter of Code 2017 : Generative Adversarial Networks

PROJECTS

Semantic Segmentation using Adversarial Networks October 2017 - Present
***Guided By** :: Prof. Debdoot Sheet and Miss Rachana Sathish* *IIT Kharagpur*

· Implementing adversarial training approach to train semantic segmentation models
· Tools used :: PyTorch —— Numpy

Dog Or Cat Self Project
https://github.com/sangeet259/Dog-or-Cat

· A Convolutional Neural Network based application to detect Cats and Dogs
· Implemented a 6 Layered architecture which achieved 92% accuracy
· Tools used :: TFLearn —— Tensorflow —— NumPy

K Means Compressor Course Project
Machine Learning — Coursera *https://github.com/sangeet259/KMeans-Compressor*

· Implemeted KMeans Clustering algorithm to find dominant colours in an image
· Achieved a 6 times reduction in size by using only the dominant colours for Image representation
· Tools used :: Octave

Sign Language Detection Course Project
Deep Learning Specialization Coursera *https://github.com/sangeet259/Sign-Language-Detector*

· A 3 layer Deep Neural Network based program to detect hand signs from 0 to 5
· Tools used :: Tensorflow —— NumPy

Synisto Self Project
https://github.com/sangeet259/synisto

· A Collaborative Filtering based application to suggest movie to users on MovieLens 1M dataset
· Working on using Restricted Boltzmann Machines for the prediction
· Tools used :: NumPy —— SciPy

ACADEMIC ACHIEVEMENTS

- Ranked in National Top 1% (amongst 1,300,000 candidates) in JEE Mains 2016 and Top 1.8% (amongst 200,000 candidates) in IIT-JEE Advanced 2016
- Ranked in the State-wise Top 1% in Indian National Chemistry Olympiad

RELEVANT COURSES

Course Name	Authority
Programming & Data Structures	IIT Kharagpur
Algorithms Specialization	Stanford University via Coursera
Machine Learning	Stanford University via Coursera
Deep Learning Specialization	DeepLearning.ai via Coursera
CS231n: CNNs for Visual Recognition(ongoing)	Self Learning

POSITION OF RESPONSIBILITY

Captain - Open Soft :: VS Hall Of Residence August 2017 - Present

· Captaining a team of 10 people to compete in Software Development Challenge : Open Soft

Tutor :Robotics Winter Workshop December 2017

· Taught in IEEE Certified Image Processing Winter Workshop conducted by TRS,IIT Kharagpur

EXTRA-CIRRUCULAR

- 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