

SANGEET KUMAR MISHRA

C-340, Vidyasagar Hall Of Residence, IIT Kharagpur ◊ West Bengal. 721302

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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
- Implemented real time underwater buoy detection using SSD and Mobile Nets

Kharagpur Open Source Society,IIT Kharagpur

October 2017 - Present

Guide : Prof. Animesh Mukherjee

Executive Head

- Contributed to the development of KWoC 2017 Website with more than 2700 registrations
- Mentored students in Kharagpur Winter of Code 2017 : Generative Adversarial Networks

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

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

PROJECTS

Semantic Segmentation using Adversarial Networks

October 2017 - Present

Guided By :: Prof. Debdeep 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>

- Implemented 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-CIRRICULAR

- 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