Suchit Jain

I am a Machine Learning enthusiast, always exploring and applying it for various applications. I have developed a keen interest in the sub-domain of computer vision and am looking forward to working on interesting research projects in the field.

www.suchitjain.me
suchit27022@gmail.com
+91 9810606539
New Delhi, India
linkedin.com/in/suchit-jain
https://github.com/suchitj2702

WORK EXPERIENCE

Artificial Intelligence Intern
Omnipresent Robot Tech

05/2018 - 07/2018 *New Delhi, India*

A leading startup in India, providing robotics, industrial UAV/drone, and video analytics solutions.

- Lead the computer vision module of the Self-Driving car project
- Implemented a real-time object detector and classifier for the self-driving car project using the Mask RCNN Neural Net. architecture
- Implemented a real-time lane detector for the self-driving car project using the LaneNet Neural Network architecture
- Used Robot Operating System(ROS) to manipulate vehicle movements in response to the object detector and the lane detector
- Implemented a video transmission system using the RSTP protocol to stream a live video feed onto an IP Address

Contact: Aakash Sinha - Founder/CEO- Omnipresent Robot Tech
aakashsinha@omnipresenttech.com

Young Engineer(Human Factors Department)
NASA Space Settlement Design Competitions

09/2014 - 08/2015 *Kennedy Space Centre, Florida, USA*

An aerospace industry design simulation competition organized by NASA engineers

- Composed industry level reports envisioning space colonies under the direct counsel of experienced NASA and Boeing engineers.
- Designed 3 different space settlements in and around Mars.
- Worked in cross-continental collaborated, hypothetical "companies" to prepare proposals from scratch in 24 hours.

RESEARCH PROJECTS

Smart City Planner(09/2017-Present)

- A computer vision web application to simplify the process of city planning using Mask RCNN based segmentation and Random Forest classifier in the back-end.
- Uses drone collected images and orthomosaics as input to automatically calculate road length, road area, number of trees, tree-cover area, number of plots and plot-cover area.
- Generates comparison metrics for data collected over the same area at different intervals of time.
- Can be used by municipal corporations to track changes in different parameters over a duration of time and by forest authorities to track illegal deforestation.

ACADEMIC PROJECTS

Face Detection using eigenfaces(04/2018)

- Implemented a face detector using the eigenfaces approach.
- Implemented all the mathematical transforms using MatLab, without the use of any libraries or mathematical functions.

SKILLS

Programming - Python, OpenCV, MatLab, SQL, LaTex, Verilog, C++, C, Java
Machine Learning - Neural Networks, Random Forest, Naive Bayes, Support Vector Machines, Regression
Amazon Web Services - Elastic Compute 2(EC2), Elastic Beanstalk, Load Balancer
Google Cloud Platform - Compute Engine
Software - Linux, MatLab IDE, Photoshop, GIMP, Solidworks, Robotics Operating System, Vivado VHDL, Git, Github, Apache DB

EDUCATION

BTech. Electronics and Communication Engineering
Shiv Nadar University
07/2016 - Present *CGPA - 8*

High School
Amity International School, Noida
2002-2016

- India AISSE (High School Senior Secondary Examinations) - 93%
- India AISSE (High School Secondary Examinations) - CGPA 10

HONOR AWARDS

International Space Settlement Design Competition, NASA
Winner(2015)

Asian Regional Space Settlement Design Competition
Winner(2015)

CERTIFICATES

NVIDIA Deep Learning Institute(2017)
Attended workshops on various Deep Learning topics held at IIT, Delhi

Machine Learning - Stanford University - Coursera
Grade Achieved - 96%