

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.

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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.

Achievements/Tasks

- Led 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

Achievements/Tasks

- 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

04/2017

- 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, Robotics Operating System, Photoshop, GIMP, Solidworks, Vivado VHDL, Git, Github, Apache

EDUCATION

BTech. Electronics and Communication Engineering

Shiv Nadar University

07/2016 - Present

CGPA - 8

High School

Amity International School, Noida

2002-2016

Achievements

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

HONOR AWARDS

International Space Settlement Design Competition, NASA (2015)

Winner

Asian Regional Space Settlement Design Competition (2015)

Winner

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%
