SHOBHIT GUPTA

Mumbai, India - 400614
(+91) 9724523809 ⋄ shobhit9618@gmail.com

EDUCATION

National Institute of Technology, Surat *June 2013 - May 2017*
Bachelor of Technology
Department of Mechanical Engineering Overall CGPA: 8.40

TECHNICAL SKILLS

Machine Learning	Keras, Tensorflow, PyTorch
Programming	Python, MATLAB, OpenCV
Designing	Solidworks, UGNX
Robotics	ROS, Arduino, Gazebo

WORK EXPERIENCE

Accio AI, Mumbai Dec 2019 - Present
Machine Learning Engineer

- Developing machine learning models for computer vision.
- Working on Convolutional Neural Networks to train models for detection of age, gender and emotions in facial images.
- Using transfer learning in Keras and Tensorflow.

Kissfly Inc., Mumbai Nov 2019 - Present
Tehcnical Consultant

- Working on finding a solution for video streaming on drone via wifi and RF based modules.
- Using ROS and Gazebo to provide a method for simulating stereo camera on a drone and utilizing the data further for image processing.
- Currently working remotely from Navi Mumbai. Company is based in San Francisco, US.

Maruti Suzuki India Limited, Gurgaon July 2017 - Oct 2019
Assistant Manager, R&D Divison

- Conducted a technical study on the use of plastic fender in automobiles.
- In-charge of the development of exterior plastic parts of an automobile from sourcing till the production stage.

INTERNSHIPS

Flytbase Labs, Pune May 2016 - July 2017
Robotics engineer intern

- Developed an obstacle avoidance system in quadrotors using a stereo camera.
- System was able to detect and avoid obstacles based on depth data from camera.
- Algorithm was built using python, ROS and OpenCV. Testing was done on Gazebo simulator.

Indian Institute Of Technology, Indore May 2015 - July 2016
Research Intern

- Worked on a research project involving testing of photo-catalytic degradation of dye.

PROJECTS

Forward kinematics of Stewart Platform Aug 2016 - May 2017
Final year University Project

· A neural network was used to find solutions to the problem of forward kinematics of a stewart gough platform in real-time.
· Created a working model using stepper motors, arduino board and python algorithm.

University CanSat Challenge, Bangalore Aug 2015 - Jan 2016
Miniature-Satellite making competition

· Project lead, worked on mechanical design and testing of components. Our team was the national winner in the event.
· Developed a 3D printed can-sized satellite that was landed using a descent control system including a parachute.
· Designed and developed a system which could take various atmospheric data like temperature, pressure, altitude, GPS, and video and send it all to a ground station in real-time.

ABU Robocon India, Pune Aug 2014 - Mar 2015
Annual Robotics Competition

· Participated in the national-level Robotics competition contested by more than 80 teams across the country.
· Involved in the design and development of two Robots capable of playing a doubles badminton match.

TRAINING & COURSES

Computer Vision Basics - Coursera Aug 2019
University at Buffalo

· Learned basics of computer vision and applied image processing techniques on MATLAB.

Deep Learning Specialization - Coursera Aug 2017
Deeplearning.ai

· Completed projects on machine learning applications including object detection, image recognition and facial detection.

Control Of Mobile Robots - Coursera May 2016
Georgia Institute of technology

· Project on development of a virtual obstacle avoidance system in automobiles, based in MATLAB.

AWARDS & ACHIEVEMENTS

- Won outstanding achievement award at company for study on plastic fenders in automobiles.
- Winner of University CanSat Challenge 2015-16.
- Runner up in the Robowars event at University Technical Fest-2015.
- Recipient of 1st prize in the Mathematics Olympiad at my school.