

Academics

2016-2020 | B.Tech in **Electronics and Communication Engineering**
(Expected) | **Jaypee University of Information Technology**, Waknaghat

GPA: 7.0/10.0

Technical Skills

Programming	C++, Python, Javascript
Libraries / Frameworks	Node.js, ReactJS, Tensorflow, Keras, OpenCV, ROS
Databases	MySQL, PostgreSQL, MongoDB
Systems / Platforms	Git, AWS, Docker, Heroku, Azure, Linux

Experience

Jul 17	Machine Learning Intern	USHR, India
May 17	<ul style="list-style-type: none">- Interpret data on price, yield, stability, future investment-risk trends, economic influences, and other factors affecting investment programs using Data Analytics.- Worked on Data Scrapping, Fuzzing, Preprocessing on Documents and Setting up a multi-label Classifier.	

Projects

- **Standalone Driving Assistant Unit**
Developed a dash camera based standalone pipeline with functionalities of Lane Departure Warning, Forward Collision Warning and Tailgate warning.
- **Curved lane lines detection using HSV filtering and sliding window search method.**
Implemented a Robust Curved lane detection pipeline built on top of Python. Based on HSV filtering and Sliding window search algorithm with overlay of detected road.
- **Labeling pixels of a road in images using a FCN using Semantic Segmentation approach**
Built a Fully Convolutional Network (FCN) that could label the individual pixels of an image as road or not road. The FCN was trained to recognize two classes: road and not road. The final network was trained for 10 epochs using a batch size of 4 and is based on the FCN-8 architecture built using the VGG network and trained on the KITTI Dataset.

Hackathons & Competitions

Current	Pedestrian Safety Device	Smart India Hackathon '19
	<ul style="list-style-type: none">- Built a Pedestrian Detection Pipeline using INRIA dataset and YOLO model with Darknet framework. Comparatively analyzed the efficiency of alert trigger with INRIA and DALIMAR datasets.	
Nov 17	IoT based Pollution Monitoring and Waste Management for smart cities	Smart Cities Hackathon-'18
	<ul style="list-style-type: none">- Won 2nd Prize for building a Smart City smart waste management dashboard with various utilities created for municipalities. The dashboard was built with a NodeJS backend and had several utilities including plots, optimal routes, grievance portal and municipal vehicle finder to name a few.	
Feb 17	Underwater Glider for Real Time Mapping with SensorTag IoT System	Murious 2017
	<ul style="list-style-type: none">- Accomplished automated glider controlled movement with a ballast system. Developed obstacle-avoiding feature and Interfaced TI CC2650STK SensorTag with Raspberry Pi to retrieve data in real time.	

Extracurricular & Leadership

Current	Founder & Maintainer , MetaJUIT Wiki
	<ul style="list-style-type: none">- Responsible for fostering participation, promoting the growth of the group and maintaining the following open-source projects: metaqpp, metaYP and metaImplode
Current	Vice Chairperson , ACM Student Chapter JUIT
	<ul style="list-style-type: none">- Responsible for forming event policies, Administratio and managing Robotics & AI Projects in ACM Student Chapter of JUIT.
Current	Coordinator , JYC Media & Publicity Committee
	<ul style="list-style-type: none">- Leading a group of 45 students in areas of Digital Marketing (SMM, Email-Campaign), Graphic Designing/Video Editing
Current	Overall Coordinator , TIEDC E-Cell of JUIT
	<ul style="list-style-type: none">- Actively building a vibrant startup ecosystems in Himachal Pradesh. I managed and coordinated with a team of 40 volunteers to organize Techstars Startupweekend Solan.