

DHRUV JOSHI

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EDUCATION

Manipal Institute of Technology
Bachelors in Technology
Computer Science and Engineering

July 2018 - Present

WORK EXPERIENCE

Project MANAS

February 2019 - Present

AI Division

- Designed an end to end module for lane detection that uses instance segmentation and gives out polynomial equations for lanes which are tracked using Kalman Filters.
- Implemented a Network that uses a stereo camera to generate accurate depth maps for an autonomous car.
- Built a module for the IGVC bot to detect and navigate ramps using just a 2D LIDAR.
- Built and trained the driver monitoring module for an autonomous car.

Active.ai

June - July 2019

Machine Learning Intern

- Improved the accuracy of the sentiment analysis model by 15% by implementing a GRU with Attention.
- Designed a module that uses density based clustering along gaussian noise removal to predict future customer transactions given the transaction history.

PROJECTS

Semi Supervised Classifier

Modified the Discriminator of a GAN to act as a Classifier with an adversarial and an auxillary branch which was trained on CIFAR10 while having access to only 10% of its class labels.

TECHNICAL SKILLS

Languages: Python, C++, C, Java

Technologies: Tensorflow, pyTorch, OpenCV, ROS, PCL, sci-kit learn, Git, Linux

ACHIEVEMENTS

Part of the team that came first in the 27th Intelligent Ground Vehicle Competition(IGVC 2019)