

PROJECT EXPERIENCE

Portfolio: <https://hiteshhdwig.github.io/>

Mini Projects:

Aug 2020 – Current

- [Project SED-ev](#): A state-of-the-art self driving vision system that can efficiently perform the following:
 - Pedestrian detection(Using HOG), License plate detection (Using Detectron2), Car & Traffic light detection(Using YOLOv4), Lane detection and tracking(Using Traditional Computer Vision).
- [ThatsTheBreed](#): End to End FastAI based dog's breed detection model deployed with 85% accuracy
- [COVIZ-ualise](#): Deployed interactive dashboard on heroku website using flask to gain data insight from COVID-19 with powerful visualisation tools like plotly, matplotlib.

Mars Rover(Team InfernoDTU)

Aug 2018 – Jan 2019

Software Head

- Led the group of 7 members in the development of Autonomous Mars Rover Prototype to compete in competitions.
 - Improved quality of code & algorithm to significantly reduce the cost of hardware by 60%.
- Built system which uses GPS waypoints for navigation and Object detection using OpenCV in real time.
- Collected, retrieved, and debugged sensors data while testing rover for efficient real-time performance.

Go-Kart(Team InfernoDTU)

Oct 2017– May 2018

Machine vision researcher

- Planning and presenting comprehensive reports on traffic signs, lane departure detection and ultrasonic sensor implementation process on affordable hardware.
- Trained Keras based CNN model achieved 98% accuracy for Dog vs Cat detection.

ACHIEVEMENTS

- Team Inferno DTU participated and won the 1st prize in skidpad and runner-up in autocross, at International Go-Kart Championship'18 (IGC'18).
- Team Inferno DTU participated at Indian Rover Challenge(IRC'19) held in Manipal Institute of Technology and secured 7th position among the 32 teams from 5 countries across the world.
- Completed 'Data Science Math Skills(Coursera)', 'Python Data Structures(Coursera)', 'Data Visualization (Kaggle)', 'AWS Machine Learning Foundation Course(Udacity)', 'Modern Deep Convolutional Neural Networks with Pytorch(Udemy)'.

EDUCATION

Delhi Technological University(formerly DCE)

Class of 2020

B.Tech - Mechanical Engineering

New Delhi, India

Kendriya Vidyalaya, Masjid Moth - XIIth Class

2016

Kendriya Vidyalaya, Masjid Moth - Xth Class

2014

SKILLS & INTERESTS

- Python, C++
 - Computer Vision
 - Machine learning(such as k-NN, Naive Bayes, SVM,
 - Decision Forests Etc)
 - Deep learning(such as Pytorch, tensorflow, keras)
 - Data mining
 - Semantic segmentation
 - Data Visualization
 - IoT
- **Interests** : Meeting new people, avid novel reader, documentaries, listening to classical music.