

## WORK EXPERIENCE

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

### Projects:

- [Project SED-ev](#): A complete 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 with model deployed on heroku.
- [COVIZ-ualise](#): Deployed dashboard on website to gain data insight from COVID-19 using powerful visualisation tools like plotly, matplotlib .

### Mars Rover(Team InfernoDTU)

Aug 2018 – Jan 2019

*Software Head*

- Led the group of 7 members in development of Mars Rover Prototype to compete at international level.
  - Made code concise and refactored significantly reduced the cost of hardware by over 60%.
- Built system which uses GPS waypoints for navigation and Object detection using OpenCV in real time.
- Collected, retrieved, and debugged raw data while testing rover for efficient real-time performance.

### Go-Kart(Team InfernoDTU)

Oct 2017– May 2018

*Machine vision researcher*

- Planning comprehensive report on traffic sign, lane departure detection and ultrasonic sensor implementation on raspberry pi.
- Trained Keras based deep learning 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 6th 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 - XII<sup>th</sup> Class**

2016

**Kendriya Vidyalaya, Masjid Moth - X<sup>th</sup> Class**

2014

## SKILLS & INTERESTS

- **Skills:** [Python](#); C++; [computer/machine vision](#); robot vision; [machine learning](#)(svm, randomforest etc); [deep learning](#)(Pytorch, tensorflow, keras); NLP; Spark;Neural Networks; Version control(git) ; SQL; MATLAB; robotic operating system; Linux (Ubuntu, Kali); raspberry pi; arduino; pixhawk; sklearn; pandas; plotly, dash, leading; management.
- **Interests :** Meeting new people; basic korean speaking and reading; avid novel; blog reader; documentaries; animal facts; listening classical(piano).