Hitesh Kumar

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WORK EXPERIENCE

Mars Rover(Team InfernoDTU)   **Aug 2018 – Jan 2019**
Software and Autonomous Head
- Led the department in development of Mars Rover Prototype to compete at international level.
  - The rover obstacle detection system worked accurately without any video feed lag.
- Designed a system for navigation using pixhawk.
- Establishing data communication from remote distance to base station in real time.

Go-Kart(Team InfernoDTU)   **Oct 2017– May 2018**
Machine vision researcher
- Innovate and upgrade the software, hardware capabilities of the system to detect lanes & pedestrians.
- Integrating software with Raspberrypi in real time processing.

More Projects: *Portfolio:* https://hiteshhedwig.github.io/
- Project SED-ev: A primary self driving vision stack.
- ThatsTheBreed: Detection of Dog's breed using A.I.
- COVIZ-ualise: A Data playground for Covid-19 insight.

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 'Introduction to Psychology(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**
Mechanical Engineering   *New Delhi, India*
Kendriya Vidayalaya, Masjid Moth
2016
Kendriya Vidayalaya, Masjid Moth
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).