

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 technical member

- Innovate and upgrade the software, hardware capabilities of the system to detect lanes & pedestrians.
- Integrating software with Raspberrypi in real time processing.

Defence Research and Development Organisation (DRDO) - Summer Intern 6 June – 26 July 2019

Trainee

- To study advanced manufacturing machine tools and welding techniques.
- Basic working of cryocooler and production of liquid nitrogen.

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 Vidyalaya, Masjid Moth

2016

Kendriya Vidyalaya, Masjid Moth

2014

SKILLS & INTERESTS

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