

# PINTU KUMAR YADAV

## ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Mining Engineering IIT (BHU), Varanasi	8.39	2022
BSEB (XII)	RAJENDRA COLLEGE, SARAN	68.20	2017
CBSE (X)	CHAPRA CENTRAL SCHOOL, SARAN	95.00	2015

## SKILLS

- **Web technologies** : HTML, CSS, Angular, Nodejs.
- **Software and Tools** : Pandas, Keras, Opencv, ROS, Mavros.
- **Hardware** : Jetson Nano, Arduino.
- **Artificial Intelligence** : Machine Learning, Computer Vision, Deep Learning.

## INTERNSHIP/TRAINING

**Summer Intern at RRC(Robotics Research Center), IIIT Hyderabad** April 2020 - July 2020

*Octomap based UAV Navigation of a Quadrotor in a Simulated Urban Environment*

- Implement real time obstacle avoidance using avoidance package by getting cloud point.
- Generate a octomap of urban environment using octomap mapping package.
- Implemented ROS using Mavlink protocol to control the navigation of drone in gazebo world environment.

## PROJECTS

**Autonomous Unmanned Aerial Vehicle Fleet** Nov 2019 - Dec 2019

*Inter IIT Tech Meet 8.0*

Implemented ROS using Mavlink protocol, pre-trained model named Mobilenet SSD V1 and message broker to control the navigation of the drones, target detection and offboard computing on the images obtained from the drones respectively.

**Online Trace Analysis** May 2020 - July 2020

*Networking & web based project.*

Developed a web based application to analyse captured network packets using nodejs and tshark.

**Drowsy Driver Detection** Feb 2020 - March 2020

*Machine Learning Project*

Face detection and prediction is implemented with opencv to generate an alarm whenever driver feels drowsy.

**Hand Gesture Controlled Mouse Cursor** Feb 2020 - March 2020

*Computer vision project:*

Worked on vision based gesture recognition and tracking with histogram model, back-projection and mouse interfacing using pyautogui.

## POSITION OF RESPONSIBILITY

**Event Executive, Drone Tech(Technex'20), IIT (BHU)** Mar 2019 - Mar 2020

*Techno Management Fest of IIT(BHU).*

- Successfully conducted this event with participation of 50 teams.
- Formulated a problem statement to solve real life problem.

**AirShow Co-coordinator(Technex'19), IIT(BHU)** Mar 2019 - Mar 2020

*Techno Management Fest of IIT(BHU).*

- Managed and Coordinated the Airshow to held smoothly with foot print of 350+ audience.

## EXTRA-CURRICULAR ACTIVITIES

- Participated in Inter IIT Tech Meet 8.0 representing D.R.D.O SASE'S UAV Fleet(IIT-BHU).
- Won gold badges with a 5 star rating in algorithm problem solving category in hackerrank.
- Participated in Recognizance, the Machine Learning event of Prastuti'20(Departmental Fest of Electrical).
- Participated in MLware, the Machine Learning event of Technex'20 at IIT(BHU).
- Participated in Boeing, the Aeromodelling competition of Techfest'18 at IIT Bombay.
- Participated in Drone-Tech event of Technex'19 at IIT(BHU).

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