

RAHUL KUMAR PRAJAPATI

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🐙 <https://github.com/Rprajapati8269>



PROJECTS

Audio Signal Transmission

📅 Design Credit Project

- the project's aim was to transfer sound signal wirelessly.
- Audio signal is sent to LED circuit through audio jack.
- uses 3 watt LED for transmission of signal.
- receiving output on speaker with the help of solar panel or optocoupler.
- it is also running very well in optical fibre for long range transmission.

Movie recommendation

📍 Self Learning Project

- Uses k-nearest neighbors (KNN) algorithm to find movies similar to the input criteria.
- Filters movies by the desired release year and minimum preferred rating.
- trains KNN model on 'Year' and 'Rating' features to learn movie similarities.
- Predicts ratings for recommended movies and evaluates accuracy using mean absolute error (MAE).

Smart Irrigation

📍 Engineering Design Project

- In order to handle irrigation issues, this project is used.
- we have used sensors such as moisture, wind and leaf sensor in this to capture data from plants.
- these sensors are connected with motor, to find whether there is need of irrigation or not.
- based on sensor output, motor will automatically on and off.
- This will minimize the number of workers in a crop field, control and save water.

Mess Crowd counting

📍 B.tech project

- The project aims to build an app that displays real-time crowd in mess to help students avoid long queues.
- camera captures images of queue every 10 seconds. These images are fed into a pre-trained PyTorch Faster R-CNN model to count people.
- The people count and timestamp are recorded in a Google Sheet, which is updated in every 10 seconds.
- The Flutter app fetches data from the Google Sheet and displays the current crowd levels.
- The crowd levels are color coded into red, yellow and green to indicate high, medium and low crowds respectively.

EDUCATION

B.Tech in Computer Science and Engineering

IIT Jodhpur

📅 2020 – 2024

CGPA: 5.32

Dakshana Scholar

📅 2019-2020

Class XII

Jawahar Navodaya Vidhyalaya, Rajgarh

📅 2019

91%

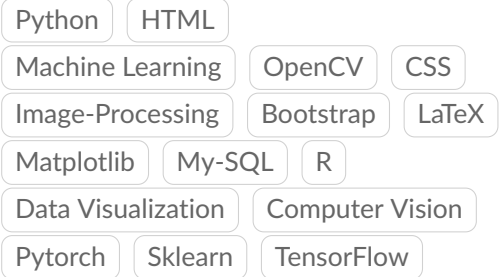
Class X

Jawahar Navodaya Vidhyalaya, Rajgarh

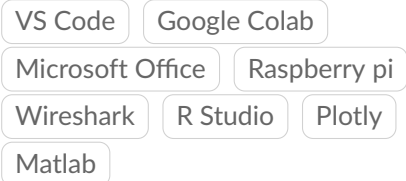
📅 2017

CGPA: 9.8

SKILLS



TOOLS



COURSEWORK

- Cyber Security
- Blockchain
- Data Structures and Algorithms
- Software Engineering
- Operating Systems
- Optimization in Machine Learning
- Pattern Recognition and Machine Learning
- Database Management Systems
- Foundation of Finance
- Computer Architecture
- Computer Networks