

# CHETAN MADAN

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📍 New Delhi, India

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## EDUCATION / COURSES

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B.Tech, Computer Science and Engineering  
**Bharati Vidyapeeth's College of Engineering, New Delhi**

📅 2017 - 2021

XII, Science  
**CBSE Board (Mayo International School)**

📅 2017

X, (Secondary)  
**CBSE Board (Ahlcon Public School)**

📅 2015

## EXPERIENCE

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Technical Executive  
**DEVELOPER STUDENT CLUBS by Google Developers**

📅 April 2018 - Present

Electronika Executive  
**INDIAN SOCIETY FOR TECHNICAL EDUCATION**

📅 September 2017 - September 2018

## SKILLS

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- Machine Learning
- Computer Vision
- Arduino
- Raspberry Pi
- Android

## PROGRAMMING LANGUAGES, LIBRARIES AND FRAMEWORKS

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- C/C++, Python, Java, Javascript, Dart
- Tensorflow, Keras, OpenCV, PyTorch
- Flutter
- MATLAB

## ACHIEVEMENTS

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- Winner at UHACK 3.0 hackathon in USICT, Delhi
- First Runner Up in Vihaan 2.0 Hackathon by IEEE, DTU
- Quarter Finalist in IICDC 2018 by Govt. of India

## OTHER ACTIVITIES

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- Organized Arduino Day Hackathon in BVP, New Delhi.
- Organized and managed Tensorflow Watch Party and ML Hackathon.
- Organized LFR 2.0 in Evoluzione Fest by ISTE

## PROJECTS

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### Autonomous Gym

- A system to detect whether a user is performing an exercise properly by identifying key-points on the user's body and comparing it to a seed video.
- Used posture detection implemented in Tensorflow.
- Provided real-time feedback on any mistake in performance of any exercise.
- Capable of detecting posture of multiple persons in a single frame

### Attendance System Using Face Recognition

- An attendance system that uses face detection using OpenCV in python. The system marks the time of entry and time of exit

### Mountain Hike

- A driving assistant that gives a driver accurate picture of other cars in a radius of few hundred metres
- Used the concept of indoor localization to vehicles.
- Used deep learning to detect objects on road other than cars
- The system suggests appropriate reaction on basis of road condition in case of potential accident situation.

### Parking Spot Detection and Alert

- Developed a system to detect available parking spaces in parking lots as well as authorized parallel parking using existing cameras.
- Different camera angle, position, image quality, illumination and type of occlusion were the major challenges.

### Drone Surveillance System

- Developed a system to monitor autonomous drones in real time in a region using CNN.
- Provide safety against malicious use of UAVs using hardware.
- Provide platform for path planning and registration of drones using blockchain.