CHETAN MADAN

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EDUCATION / COURSES

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

Subject Matter Expert Intern - Machine Learning
Eckovation
June 2019 – Present

Head of Machine Learning
DEVELOPER STUDENT CLUBS by Google Developers
May 2019 – Present

Technical Executive
DEVELOPER STUDENT CLUBS by Google Developers
April 2018 – May 2019

Electronika Executive
INDIAN SOCIETY FOR TECHNICAL EDUCATION
September 2017 – September 2018

SKILLS

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

PROGRAMMING LANGUAGES, LIBRARIES AND FRAMEWORKS

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

ACHIEVEMENTS

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

OTHER ACTIVITIES

- 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

Autonomous Gym
- A feedback system to detect whether a user is performing a 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.

Time Organizer
- Deployed an action on Google Assistant
- URL:https://assistant.google.com/services/a/uid/00000010ee3c1c47
- Invoked by saying "Talk to my time organizer"