Chetan Madan

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Education

Bharati Vidyapeeth's College of Engineering *New Delhi*
B.Tech. in Computer Science and Engineering *2017 - 2021*

Experience

Eckovation *New Delhi*
Subject Matter Expert - Machine Learning *June 2019 - August 2019*
- Worked to help develop Unnayan system for smart education and classrooms
- Built an Autonomous OMR sheet evaluation system without dedicated hardware

Projects

Do It Right

Personal
- Feedback system to detect if a user is performing a exercise properly by identifying key-points on the user's body and comparing it to seed video.
- Used PoseNet implemented in TensorFlow
- Provided real-time feedback on mistakes in performance of any exercise

Mountain Hike

Personal
- Driving assistant that gives a driver accurate picture of other cars in a radius of 200 metres
- Used the concept of indoor localization to vehicles
- Used deep learning to suggest appropriate reaction

Parking Spot Detection

Personal
- System to detect available parking spaces in parking lots as well as authorized parallel parking using existing cameras
- Major challenges were: different camera angle, position, image quality, illumination and type of occlusion

Extracurricular Activity

Microsoft

Microsoft Student Partner *September 2019 - PRESENT*
- Gained experience about new tools and frameworks for machine learning, robotics and electronics
- Held regular meetups with students to discuss and share knowledge on emerging technologies

Developer Student Clubs by Google Developers (DSC BVP)

Head, RNIS (Robotics and Intelligent Systems) *May 2019 - PRESENT*
- Promoted technical education by taking workshops and sessions on Machine Learning and Robotics.
- Held research discussions with students to discuss latest relevant research

Indian Society for Technical Education

Electronika Executive *September 2017 - October 2018*
- Worked in a team to develop intelligent robotics solutions to common problems, such as guidance bot for visually impaired persons

Skills

Programming	Python, C/C++, Embedded C, MATLAB, Java
Deep learning	PyTorch, Tensorflow, Keras, Caffe
Robotics	Embedded Systems, Atmel AVR, Arduino, Raspberry Pi

Honors & Awards

2020	**Winner**, India Automation Games by International Society of Automation (ISA) - District 14 and MPSTME Qualified for ISA-SAIT Automation Games, Canada	*Mumbai*
2019	**Winner**, Vihaan Hackathon by IEEE, DTU	*Delhi*
2018-2019	**Semi Finalist**, IICDC by DST and Texas Instruments	
2018	**Winner**, UHack 3.0 Hackathon in USICT, Delhi	*Delhi*