Chetan Madan

□ (+91) 99681-03528 | Chetanmadan24@gmail.com | O ChetanMadan | o chetan-madan

Education

Bharati Vidyapeeth's College of Engineering, Guru Gobind Singh Indraprastha University

New Delhi

B.TECH., COMPUTER SCIENCE AND ENGINEERING

2017 - 2021

Experience _

Eckovation

New Delhi June 2019 - August 2019

SUBJECT MATTER EXPERT - MACHINE LEARNING

- Worked to help develop Unnayan system for smart education and classrooms
- Built an autonomous OMR sheet evaluation system without dedicated hardware

Projects.

Few Shot Accent Sensitive Voice Cloning using Generative Decoder

PERSONAL

January 2020 - Present

- Extracted embeddings corresponding to four human speech features: speaker voice features, speaker accent, emotions and context of speech using different encoder networks from mel-spectrogram of voiced audio samples
- Used VCTK, TIMIT and CMU Arctic datasets to train different encoders
- Used embeddings from the four encoders to generate mel-spectrogram corresponding to cloned voice using a generative decoder.
- Used triplet loss to train the generative decoder.

Do It Right

PERSONAL

November 2018 - February 2019

- Feedback system to detect if a user is performing a exercise properly.
- Detected keypoints on a user's body and calculated relative slopes.
- Compared relative slopes to calculate correctness of user's posture.
- Provided real-time feedback on mistakes in performance of any exercise.

Mountain Hike

PERSONAL November 2018 - Present

- 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 neural network to suggest appropriate reaction based on surroundings of the vehicle

Attendance System using Face Recognition

Implemented using Face Detection in OpenCV

· Marked the entry and exit times for every member

Drone Surveillance System

PERSONAL

• Developed a system to monitor autonomous drones in real time in a region using CNN

Aimed towards providing safety against malicious use of UAVs

August 2018 - September 2018

September 2018 - December 2018

Extracurricular Activities

Microsoft

PERSONAL

MICROSOFT STUDENT PARTNER

September 2019 - Present

May 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)

Promoted technical education by taking workshops and sessions on machine learning.

Promoted technical education by taking workshops and sessions on machine learnin
 Held research discussions with students to discuss latest relevant research

Skills_

2018

Programming Python, C/C++, MATLAB, Java, Embedded C

Deep learning PyTorch, Tensorflow, Keras, Caffe

Robotics Embedded Systems, Atmel AVR, Arduino, Raspberry Pi

Winner, UHack 3.0 Hackathon in USICT, Delhi

Honors & Awards

2020	Winner, India Automation Games by International Society of Automation (ISA) - District 14 and MPSTME	Mumbai
	Qualified for ISA-SAIT Automation Games, Canada	
2020	Invitee, Microsoft Asia Student Partner Summit 2020 and Imagine Cup Regional Finals, Singapore	Singapore
2019	Winner, Vihaan Hackathon by IEEE, DTU	Delhi
2018-2019 Semi Finalist, IICDC by Department of Science & Technology and Texas Instruments		

Delhi