

Chetan Madan

☎ (+91) 99681-03528 | ✉ chetanmadan24@gmail.com | 📷 ChetanMadan | 🌐 chetan-madan | 🐦 TheChetanMadan

Education

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

B.TECH., COMPUTER SCIENCE AND ENGINEERING

GPA: 8.2/10

New Delhi

2017 - 2021

Experience

OpenMined

MENTOR

December 2020 - Present

- Mentored students of the Private AI Course.
- Gained deeper knowledge of PySyft and PyGrid and their use in federated learning.

Aiotize

DATA SCIENCE INTERN

New Delhi

May 2020 - August 2020

- Worked on an automated port management system
- Used video analytics for analysis and surveillance of containers entering and exiting a port
- Monitored the intactness of seals on containers present in the port, along with their health and the container number.

Eckovation

SUBJECT MATTER EXPERT - MACHINE LEARNING

New Delhi

June 2019 - August 2019

- Developed the Unnayan system for smart education and classrooms
- Built an autonomous OMR sheet evaluation system without dedicated hardware

Projects

CodeFed

PERSONAL

January 2021 - present

- Built a privacy preserving Code-Switching detection system
- Capable of detecting frame level code switching between English, Tamil, Telugu and Gujarati with 78% accuracy.

Few Shot Accent Sensitive Voice Cloning using Generative Decoder

PERSONAL

January 2020 - July 2020

- Extracted embeddings corresponding to four human speech feature using different encoder networks from mel-spectrogram of voiced audio samples
- Used VCTK, TIMIT and CMU Arctic datasets to train multiple encoders
- Used embeddings from the 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 an 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

Volunteer Experience

Microsoft

MICROSOFT LEARN STUDENT AMBASSADOR

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, MACHINE LEARNING

May 2019 - May 2020

- Promoted technical education by taking workshops and sessions on machine learning.
- Held discussions with students to discuss latest research.

Skills

Programming Python, C, C++, Java, R, Embedded C

Deep learning PyTorch, PySyft, Tensorflow, Keras, Scikit-learn, Caffe

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, India
2020	Invitee , Microsoft Asia Student Partner Summit 2020 and Imagine Cup Regional Finals , Singapore	Singapore
2019	Winner , Vihaan Hackathon by IEEE, DTU	Delhi, India
2018-2019	Semi Finalist , IICDC by Department of Science & Technology and Texas Instruments	
2018	Winner , UHack 3.0 Hackathon in USICT, Delhi	Delhi, India