Chetan Madan

□ (+91) 99681-03528 | Sechetanmadan24@gmail.com | O ChetanMadan | In chetan-madan | The ChetanMadan

Education

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

New Delhi

B.Tech., Computer Science and Engineering

2017 - 2021

GPA: 8.2/10

Experience __

Aiotize New Delhi

Data Science Intern

May 2020 - Present

- 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.

EckovationNew Delhi

SUBJECT MATTER EXPERT - MACHINE LEARNING

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 frane 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

- $\bullet \ \ \, \text{Extracted embeddings corresponding to four human speech feature using different encoder networks from mel-spectrogram of voiced audio samples}$
- Used VCTK, TIMIT and CMU Arctic datasets to train multiple encoders
- $\bullet \ \ \, \text{Used embeddings from the encoders to generate mel-spectrogram corresponding to cloned voice using a generative decoder.}$
- 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 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

Volunteer Experience _____

OpenMined

MENTOR December 2020 - Present

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

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

1

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	Mumbai, India
	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, 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