

Aditya Srinivas Menon

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EDUCATION

- Indian Institute of Information Technology Kottayam, India
Bachelor of Technology - Computer Science and Engineering CGPA: 9.01 Dec 2020 - May 2024

SKILLS SUMMARY

- Languages: Python, C, JavaScript HTML/CSS, MATLAB/Octave
- Frameworks: PyTorch, Flutter, TensorFlow, Keras, NLTK, Django, Flask
- Tools: GIT, Linux, Bash, GCP, Docker, Figma

INDUSTRY EXPERIENCE

- AdPushUp Remote
Machine Learning Intern Dec 2022 - Present
 - Research and development in **time-series** for **user-behaviour** resulting in **10%** increasing in daily revenue
- Begin AI Remote
Intern Machine Learning Engineer Dec 2021 - June 2022
 - Research and development in state of the art **voice cloning** techniques and how to improve them
 - Work on **decentralized** ML methods and on-device **federated learning** for **44,000** audio data points
 - Make **recommendation systems**, **fake profile detection** and **voice cloning** algorithms for demo apps
- Bosch Remote
Computer Vision Research Intern June 2022 - September 2022
 - Work on State of the Art **anomaly detection** models on proprietary **datasets** with over **2,000,000** images
 - Use **self supervised approaches** to get feature rich **embeddings** for anomaly detection and **segmentation**
 - Parallelize** models on **GPU** cluster and hyper-parameter tune them for better results and **time efficiency**

PUBLICATIONS

- Aditya Srinivas Menon and Konjengbam Anand. *X-ABI: Towards Parameter Efficient Multilingual Adapter Based Inference for Cross-Lingual Transfer*. *International Conference on Data Management, Analytics Innovation*, 2023
- Lucia Cipolina-Kun, Simone Caenazzo, Gaston Mazzei, and Aditya Srinivas Menon. *Image Inpainting Applied to Art: Completing Escher's Print Gallery*. *International Conference on Machine Learning, ICML LatinX in AI (LXAI) Research Workshop*, 2021

PROJECTS

- Dancefake August 2021
Pytorch, Flutter, Firebase *website*
 - App that lets users choose templates, click an image and and create **deepfakes** of dance videos
 - Pitched the final product as a social media app to **Y Combinator** batch of Winter 2022
 - Designed and launched the **social media** app where users are **3 clicks** away from recreating dance videos
- Fingerprint liveliness detection August 2022
Pytorch, Flask, Python, Firebase, Javascript
 - Trained a deep learning model on **LivDet 2015 dataset** with **1000** images to detect live and fake fingerprints
 - Achieved an accuracy of **92%** on test set using **patch CNN's** and enabled **authentication** for fingerprints
 - Proposed **the idea** with heart beat detection and liveliness detection to a panel of judges at **SIH Finals**
- Speech2Sign - Audible for the deaf May 2021
Pytorch, Flask, GCP
 - A mobile app that converts user **speech** to **sign language** from word syllables using deep learning
 - Machine Translation** by training a **Transformer** on **134,000** text-phoneme pairs in CMU Dictionary

ACHIEVEMENTS

- Winner of **Manthan 2021**, India's first hackathon on **national security** by **BPR&D & AICTE**
- Finalist of **Smart India Hackathon SIH:2022** for **2** problem statements
- #9** Worldwide among **65,000+** Hackers, Major League Hacking **LHD: Share 2021**
- Google Cloud** Category Prize Winner (out of **600+** teams), **RU Hacks** and **Hack Tech**
- First Prize** Winner (out of **220+** teams), **MLH: Uncommon Hacks**

COMMUNITY AND LEADERSHIP

- Mentor at Technical Club **Beta Labs** of IIITk August 2022
- Technical Lead at Google Developers Student Club **GDSC**, IIITk August 2021
- Technical Head at **Geeks for Geeks** student chapter, IIITk August 2021
- Mentor at **Command tech**, a non-profit helping and guiding the underrepresented sections in **STEM** July 2021
- Mentor at **Hydrangea Hacks**, **LA hacks** and **Ignition Hacks** 2021