

Mayukh deb

Curriculum Vitae

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DOB: November 9th, 2000

Education

- Expected 2023 **Bachelor's of Technology**, *Electrical and Computer Engineering*, ASE, Amrita Vishwa Vidyapeetham, Kollam, India. GPA: 8.93/10.0.
- 2016 - 2018 **Higher Secondary**, Amrita Vidyalayam, Kolkata, India. Marks: 93%.
- 2016 **Secondary**, Amrita Vidyalayam, Kolkata, India. GPA 8.8/10.0.

Areas of Interest

Deep neural networks, Data science, Computer vision, Image processing, GANs, Adversarial Attacks

Experience

- July 2019 - Present An active member in **amFOSS**, Amrita Vishwa Vidyapeetham, Amritapuri.
- amFOSS is India's leading computer science club with over 50 passionate students who actively contribute to open source software

Relevant Projects

- December 2019 - January 2020 **Mind the bend** Made a car drive and stay on the road by itself in a simulation using a deep learning and some automation using PyAutoGUI. The model was trained on custom data collected after hours of driving in the simulation.
https://github.com/Mayukhdeb/mind_the_bend
- January 2020 **ECG heartbeat categorization** Worked on an ECG dataset and trained a deep learning model which helps derive medical inferences from ECG data of patients with an accuracy of over 97%
<https://github.com/Mayukhdeb/ECG-heartbeat-categorization>
- January 2020 - March 2020 **Adventures with augmentation** Worked on a custom dataset generated from a time-lapse video of the life cycle of a c.elegans worm. Trained a deep learning model which detects and classifies the embryo of the worm into 4 of its embryonic stages with an accuracy of over 98%
<https://github.com/Mayukhdeb/adventures-with-augmentation>
- February 2020 **Deep chicken terminator** This was a computer vision project where I tracked various animals in real time in the form of the live feed of the player's perspective in the game minecraft. At the heart of this project was a deep learning model trained to classify animals in minecraft.
<https://github.com/Mayukhdeb/deep-chicken-terminator>
- March 2020 - April 2020 **Deep chicken saviour** Used adversarial attacks on the trained model from deep-chicken-terminator to help break the tracking algorithm using FGSM. Also used "negative epsilon" FGSM to confuse the trained CNN to misclassify the image as another user specified class.
<https://github.com/Mayukhdeb/deep-chicken-saviour>

Technical Skills

- Programming Python, C
- Primary Libraries PyTorch, Keras, NumPy, SciPy, Pandas, OpenCV, PIL

OS GNU/Linux, Microsoft Windows
Tools Jupyter Notebooks, Git, conda
Web FrontEnd- HTML, CSS
Development

Volunteer work and extra-curricular activities

- 2010 - 2018 **Black belt in kyokushin karate:** I've been a part of the martial arts class in my school and participated in multiple tournaments in Kolkata, India under the mentorship of Sensei Bejoy Dhara, branch chief and country representative for IKO Matsushima.
- 2016 - 2018 **Co-ordinated charity events to support villages:** I was one of the co-ordinators who helped put together events where students donated basic medical supplies and other utilities which were to be given to the poor and needy children in villages near Kolkata, India. This programme was a part of Mata Amritanandamayi devi's (Popularly known as "Amma") efforts to help the poor and the needy throughout the world
- 2016 - 2018 **Helped co-ordinate clean up drives in areas near our school as a part of "Amala bharatam":** I was one of the co-ordinators who helped put together events where students donated basic medical supplies and other utilities which were to be given to the poor and needy children in villages near Kolkata, India. This programme was a part of Mata Amritanandamayi devi's (Popularly known as "Amma") efforts to help the poor and the needy throughout the world
- 2019 **Volunteered for the crowd management team during AmritaVarsham:** I was one of the volunteers who helped in crowd management during AmritaVarsham (Amma's birthday celebrations).

Languages

English Fluent
Hindi, Bengali Fluent