Shrisharanyan Vasu

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About

I'm a passionate student who loves to learn new things, particularly about ML/DL. I have worked on multiple Web Development projects, learning and working on machine and deep learning. I am also a singer, trained for a decade in the Carnatic discipline.

Education

B.Tech Amrita Vishwa Vidyapeetham, Aritificial Intelligence   Oct. 2022 to 2026

- GPA: 9.27/10.0 (2nd Semester)
- **Coursework:** Artificial Intelligence, ML/DL Techniques, Operating System Concepts, Computer Networks, Computer Architecture, Data Structures and Algorithms, Computational Theory.

P.S. Senior Secondary School, Biology and Maths   Till Mar. 2022

- Percentage: 91%

Achievements

Finalist in a Web 3.0 Hackathon conducted by Ur-Hackathon 2023

Experience

Research Intern, Amrita Vishwa Vidyapeetham   Kerala, India
                                                                                                          Currently

- Working under Dr Remya S for research on distributing a stable diffusion model over a network for training and inference.
- We are doing a comparative study on obtaining distributed inference from a stable diffusion model that implements DiT, with one that implements the standard U-Net backbone. We are using Hivemind to distribute it over a network.

Member & Mentor, amFOSS   Kerala, India
                                                                                                          Feb. 2023 to Present

- Completed and headed multiple development projects during my tenure in the club.
- Participated in multiple hackathons representing the club.
- Given talks on different fields of artificial intelligence. Topics include word embeddings, vector databases, and NLP.
- As a mentor, I have guided and continue to guide my junior members in their journey in development.

Projects

Automatic Number Plate Recognition (current)

- As part of a team developing an AI-based Automated Number Plate Recognition (ANPR) system, the initial challenge was to identify the most suitable model for accurate and efficient license plate detection.
- We researched and benchmarked various YOLO object detection models, by evaluating on a number of metrics.
- Currently we are using YOLOv5 model for fine-tuning it to detect the number plates.

Automatic Plastic Segregation (current)

- Heading a team working on segregating different classes of plastics combining a fine-tuned YOLO model and a robotic model. The challenge lies in the vast number of classes of plastics we need to classify them into.
- After classification, the coordinates of the object in the region of interest must be given to the robotic arm which will pick it up and throw it into the correct container.

Hospital Visitor Management System

- Part of the team that developed the Hospital Visitor Management System for Amrita Institute of Medical Sciences, Cochin.
- The hospital required a platform on which their employees could register the visitors who visited the hospital and issue visitor passes with an expiry date and time.

Jot-It-Down!

- Made a platform where people from different backgrounds can publicly share their notes. Users can search for the notes by their title, description, and author's name.
- The application's UI/UX design is inspired by Google Keep Notes.
- The next step will be to integrate the application with a Content Moderation Model to maintain the integrity of the content.

Trasheroo

- A mobile platform where responsible citizens can post about accumulating garbage in a specific location and volunteer to join the cleaning team.
- The application enables the user to post about the garbage with a single shutter click. The location was automatically pinned using an open-source package.

Courses

NVIDIA, Fundamentals of Deep Learning   Dec. 2023

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Standford University @Coursera, Machine Learning

Technologies

OS: Windows, Linux

Language: Python, Javascript, React, Django, HTML/CSS, TailwindCSS, C, Java

Tools: Tensorflow, PyTorch, Jupyter Notebook, VS Code

Interests

Computer Vision, Deep Learning, NLP, Web Development.