

Satvik Choulapally

Junior Year Undergraduate Student | D.O.B: 10 March 2004

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Education

Year	Degree	Institute/School, City	Grade
2021 – Current	B. Tech, Computer Science & Artificial Intelligence	Amrita Vishwa Vidyapeetham, Amritapuri	7.74 GPA
2021	Class XII, Telangana State Board	FIITJEE Junior College, Hyderabad	96.6%
2019	Class X, CBSE	D.A.V Public School, Hyderabad	95.8%

Experience

Research Intern @ AMMACHI Labs:

Oct 2023 – Jan 2024

- Researched on the impact of diverse teaching methods on students' performance, and analysed various trends and differences between 'good' and 'bad' teaching practices.
- Applied knowledge of tools used for video, audio and language processing/analysis like Rokoko suite and python libraries such as librosa and Moviepy.

.NET Developer @ Traboda(Freelance):

Sep 2022 – Feb 2023

- Contributed to the development of a small-scale full stack application written in C#.NET framework for the purposes of testing, analysing and preventing various methods of cybersecurity attacks like SQL and CSV injection.

Position of Responsibility

Head @ Amrita Esports Community

April 2023 – Current

Projects

Leaf Curl Virus Detection in Plants | Python/AI:

May 2024 - Current

- Developed an android/ios app that identifies the leaf curl virus which is responsible for reducing the yield of almost 35% of all infected plants. Used cutting edge ML and image processing technologies to achieve a 96% accuracy in successfully detecting the virus.

CHIP8 Emulator | C++:

Dec 2023 – Feb 2024

- Implemented a COSMAC VIP CHIP8 emulator in C++, and Simple Direct-Media Layer (SDL) as a stepping-stone to the CPU emulation field.

Neural Network Implementation | Python:

Aug 2023 – Sep 2023

- Developed a custom neural network model in Python by applying mathematical algorithms and trained it to be a handwriting recognition model on the MNIST dataset.
- Achieved 93% accuracy on a few epochs without using any inbuilt deep learning features/frameworks.

Music Genre Recognition | Python/AI:

Jul 2023 – Aug 2023

- Implemented, trained and tested an ML model that is capable of recognizing the genre of a music sample from 10 different genres using Hidden Markov models

Skills

Programming Languages: Python (Proficient), C++ (Proficient), Java (Intermediate), C#.NET,

Core: Good grasp on concepts such as Linear Algebra, OS, Data Structures & Algorithms, IoT, Device Drivers, Computer Networking and UI Development.

Web Development: HTML/CSS (Proficient), JavaScript (Intermediate), React.Js, Node.Js, Express.Js

Artificial Intelligence: Core Machine Learning, Reinforcement Learning, Deep Learning, Computer Vision, TensorFlow, Pytorch.

Soft Skills: Fluent in English, Hindi, Telugu, Strong Communication and people skills, Confidence and Leadership, Eye for detail and perfectionism, Fast Learner and Adaptive.

Certifications

Deep Learning Certification – Nvidia: September 2023

Foundational C# Developer – Microsoft: October 2023