

Satvik Choulapally

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

+91 8985764602
satvikcvsss@gmail.com
[linkedin.com/in/satxcho](https://www.linkedin.com/in/satxcho)
github.com/satxcho
Hyderabad, Telangana

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.

P.O.R: Head @ Amrita Esports Community April 2023 - Current

Projects

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.

OpenFlow Random Host Mutation in SDN: Sep 2023

- Developed a Moving Target Defence mechanism to prevent IP scanning from inside & outside the network. Controlled the packet flow in a SDN based on Random host mutation technique.

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, firmware and Embedded systems 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