**Experience:**

* **Intern at Amrita Centre for Wireless Networks and Applications (Oct 2022 – Present):**

Took part in development of Frontend and Backend of Authentication module, Mathematical modelling of business logic for a finance application which may soon be scaled to more than 1 lack users.

Currently doing research on applications of Artificial Intelligence in Vehicular Networks.

Worked in the areas of:

* + UI and UX design using flutter
  + API development using Express.js in Node.js
  + Database Management in MySQL.
  + Machine Learning using Scikit-Learn
  + Deep Learning using TensorFlow
* **Member at ACM-AI@Amrita (Apr 2022 – Feb 2023)**

Worked on Machine Learning, Deep Learning and Federated-Learning. Participated in various workshops and club activities.

**Projects:**

* **Dyslexia Detection using Machine Learning:**

Developed a web application based on Machine Learning which uses handwriting samples of children to predict presence of dyslexia with 95% accuracy.

**Tech Stack:** Python, Scikit-Learn, Streamlit

**Source Code:** [Dyslexia Detection (github.com)](https://github.com/dlsathvik04/Dyslexia_Detection)

* **Portfolio:**

Created a website for developing my online presence built using Flutter.

**Tech Stack:** Flutter

**Source Code:** [Portfolio (github.com)](https://github.com/dlsathvik04/Portfolio)

**Website**:  [dlsathvik04.github.io](https://dlsathvik04.github.io/#/)

* **Auth:**

As a part of software solution for women SHG’s developed a client and server Full-Stack module built using Express and Flutter with login, registration and Forgot Password features which uses email for OTP and can be scaled to lacks of users.

**Tech Stack:** Node.js, Express.js, Flutter

**Source Code:** [Auth (github.com)](https://github.com/dlsathvik04/Auth)

* **Device Control:**

Developed an application for real-time control of devices. The application achieves near real-time control among multiple clients using Socket Programming.

**Tech Stack:** Java, Flutter, Dart, Sockets

**Source Code:** [Device Control. (github.com)](https://github.com/dlsathvik04/DeviceControl)

**Education:**

* **Amrita School of Computing: 2021 – Now (UG - 9.89/10 GPA till semester-3)**

Currently in semester-5 of B. Tech in Computer Science and Engineering, with specialization in Artificial Intelligence.

* **FIITJEE College, Vijayawada: 2019 – 2021 (11th and 12th – 95.6%)**
* **Jawahar Navodaya Vidyalaya: 2014 – 2019 (6th to 10th- 94%)**

**Skills:**

Full-Stack Development, Mobile App Development, Machine Learning, Deep Learning, Research

* **Programming Languages:**
  + Java
  + Python
  + JavaScript
  + Dart
* **Frameworks:**
  + Express.js
  + Flutter
  + Scikit-Learn
  + TensorFlow
  + Spring
  + Django
* **Tools:**
  + SQL
  + Git
  + Firebase
  + Bash
  + Linux

**Course Work:**

**UNDERGRADUATE:**

Object Oriented Programming

Design and Analysis of Algorithms

Data Structures

Mathematics for Intelligent Systems

**OTHERS:**

[Back End Development and APIs](https://www.freecodecamp.org/certification/dlsathvik04/back-end-development-and-apis) (300 h)

[Master Express Framework](https://www.udemy.com/certificate/UC-58bb2611-b0ce-492e-b7cc-eea7bd39ff3c/)

Data Science with Python – Certificate ID (UIITG-220309592)

**Achievements:**

* **Winners- Smart India Hackathon 2022** ([Certificate](https://raw.githubusercontent.com/dlsathvik04/dlsathvik04/main/certifications/SIH2022.jpeg))

Developed a machine learning based solution for detection of Dyslexia in children which uses various Microsoft and Google’s computer vision- APIs and Some speech to text and text to speech libraries.