

Sanket S. Sarmalkar

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Education

- **B.TECH | NATIONAL INSTITUTE OF TECHNOLOGY GOA**
Specialization: Electrical and Electronics Engineering
2020 - 2024
CGPA (7th sem) : 8.27
- **XII(AISSCE-SCIENCE) | KENDRIYA VIDYALAYA PONDA GOA**
Grade: 94.2% (CBSE)
2020
- **X (AISSE) | KENDRIYA VIDYALAYA PONDA GOA**
Grade: 84.6% (CBSE - 2018)

Skills & Abilities

- **HARDWARE & SOFTWARE TOOLS**
MATLAB | SIMULINK | PSPICE | LTSPICE | Latex |
NodeMCU | Arduino UNO |
- **PROGRAMING SKILLS**
C++ | Dart | Python | Flutter | Javascript |
Typescript | Django | Reactjs | Nextjs | Nest Js | NodeJS
| ExpressJS |
- **LEADERSHIP SKILLS**
School Captain, Kendriya Vidyalaya Ponda - Goa
(2019-2020)

Projects (For more projects, check my [GitHub](#) profile)

- [On Board Electric Vehicle Charger](#)
This Project focuses on batteries and addresses concerns, difficulties, and solutions associated with them. It explores key technologies of Battery Management System, including state of charge estimation using Extended Kalman Filter and battery charging. A thorough analysis of battery state estimations for a charge and health. This project employs CCCV mode of charging utilizing a Closed Loop Buck converter.
- [Human Health Monitoring System](#)
A Full Stack project for monitoring human health. This project has two parts, a hardware device which is made using NodeMCU, MAX30102 pulse and SPO2 sensor, DS18B20 digital temperature sensor. The code for NodeMCU and the algorithm and flowchart can be found here. This Android app is made using ThinkSpeak API and Hive Database.
- [StreeKavach](#)
StreeKavach is a powerful Full Stack Project designed to empower and ensure the safety of women. With a range of features and functionalities, it aims to provide a sense of security and assistance in emergency situations. The features include location tracking, emergency signals and many more. StreeKavach app is integrated with this Telegram channel called StreeKavach to provide real-time emergency alerts directly to our community.
- [Numericals](#)
This Flutter app is a comprehensive numerical toolbox implementing various algorithms and methods described in Numerical Analysis by Richard L. Burden and J. Douglas Faires. It aims to provide a versatile solution for solving equations and performing complex computations commonly encountered in mathematical and scientific fields.

Experience

- [SOFTWARE DEVELOPER INTERN \(OXFIN TECHNOLOGIES\) \(APR 23 - JUN 23\)](#)
 - Worked on three projects using Flutter, GraphQL, Next.js, AWS and WordPress.
 - Implemented robust and scalable mobile application with a focus on user experience and performance optimization.
 - Collaborated with cross-functional teams to deliver high-quality software solutions.
 - Demonstrated strong problem-solving skills and the ability to adapt to new technologies and frameworks.

Achievements

- 3rd rank in KV Ponda Goa in CBSE – AISSEE(XII).
- 65th rank in GCET-2020
- Scored **95/100** in Mathematics and Physics (AISSE and AISSEE).
- Qualified Pre-RMO and Participated in Regional level Math Olympiad ([RMO-2019-20](#)).
- Rajya Puraskar Award ([BSG](#)).