

# VIRAJ KULKARNI

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## EDUCATION

### Savitribai Phule Pune University

Bachelor of Engineering in Electronics & Telecommunications

### Sawkar Science College Satara

Higher Secondary School Certificate

CGPA : 8.33/10

December 2021 - Present

Percentage : 93.33%

July 2019 - July 2021

## TECHNICAL SKILLS

**Programming Languages & Database:** C, C++, MATLAB, Java, Python, JavaScript, MySQL.

**Developer Tools & Software:** Simulink, MATLAB, Eclipse, VS Code, Proteus, MS Office.

**Other:** Data Structures & Algorithms, Object Oriented Programming, Frontend & Backend Development, Embedded Programming & IoT.

## EXPERIENCE

### Pantech ProEd Pvt Ltd

December 2023 – March 2024

#### Embedded Systems Engineer Intern

- Developed IoT based solutions in an innovative manner and developed software scripts for microcontrollers, contributing to a **optimal increase in system efficiency & 30% reduction in power consumption.**
- Improved **system performance by 25%** and **reduced tolerances by 15%** through effective sensor interfacing and optimization using **server-system integration**.

### MathWorks - AICTE

May 2023 – September 2023

#### MATLAB developer Intern

- Developed mathematical & AI based projects using **MATLAB**, focused on **data visualization & data analysis** increasing accuracy of the system.
- Developed **MATLAB** scripts for **signal processing**, implementing **data analysis** tools & techniques that improved efficiency optimally, enhancing the dynamicity of simulations.

## PROJECTS

### HealthSphere | Embedded Software Programming & Interfacing, Full Stack Development, PCB Design.

- Developed & implemented a **real-time healthcare system** that achieved data transmission and display **latency of less than 1 second**, providing **accuracy of 97%** and timely health metrics.
- Engineered a seamless data flow from hardware sensors to a interactive web application, **enhancing real-time monitoring and visualization and upgrading User Experience optimally**.

### Intelligent ECG Signal Analysis | MATLAB, Data Visualization, Deep Learning.

- Developed and implemented a deep learning model using Long Short-Term Memory (LSTM) networks to **classify ECG signals, achieving an accuracy of 99.03% on training data.**
- Developed an intelligent solution focused on classifying atrial fibrillation from ECG signals, contributing to advancements in **AI-driven healthcare diagnostics**.

## COURSES & CERTIFICATIONS

**MATLAB:** MATLAB & Simulink Onramp, MATLAB Fundamentals, Simulink Fundamentals, Core MATLAB Skills.

**Coursera:** SQL for Data Science, Object oriented Data Structures in C++, Data Analysis with Python.

**Udemy:** C Programming, Data Structures & Algorithms in C++.

**Other:** Core Java, Java for Business Applications.

## LEADERSHIP / EXTRACURRICULAR

### Entrepreneurship Development Cell

March 2023 - Present

#### Financial Strategist

- Oversaw **financial planning** for 10+ professional events, including workshops and seminars, **managing costs through effective budgeting & ensuring optimal allocation and utilization of resources**.