

VIRAJ KULKARNI

+91- 8830534746 | viraj.kulkarni2003@gmail.com | [LinkedIn](#) | [GitHub](#)

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**.