

# VIRAJ KULKARNI

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## EDUCATION

### Savitribai Phule Pune University

*Bachelor of Engineering in Electronics and Telecommunications*

**CGPA : 8.33/10**

*January 2021 – May 2025*

### Sawkar Science College Satara

*HSC*

**Percentage : 93.33%**

*August 2019 – July 2021*

## TECHNICAL SKILLS

**Languages and Databases:** Java, Python, C/C++, MATLAB, MySql, Blynk.

**Software:** Eclipse, MATLAB, VS Code, Proteus, MS Office.

**Other:** Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Data and Signal Processing, Mathematical Data Analysis, Computer networking, Embedded Programming and IoT.

## WORK EXPERIENCE

### Pantech ProEd Pvt Ltd

Dec. 2023 – March 2024

*Embedded Systems & IoT Engineer Intern*

- Developed IoT based solutions in an innovative manner and programmed microcontrollers, contributing to a **15% increase in system efficiency, 30% reduction in power consumption**.
- Implemented IoT protocols and collaborated on hardware-software integration projects, resulting in a **20% reduction in development time**.
- Improved **system performance by 25%** and **reduced tolerances by 15%** through effective sensor interfacing and optimization using **server-system integration**.

### Cognifyz Technologies

Dec. 2023 – Jan. 2023

*Java Developer Intern*

- Developed web applications, enhancing functionality and user experience, leading to a **20% increase in user engagement**.
- Implemented multithreading and exception handling in Java to develop robust and efficient programs, **decreasing application crash rates by 40%**.
- Utilized Eclipse IDE for coding, **reducing software bugs & errors by 93%** with positive feedback from mentors.

### AICTE NEAT-Mathworks

May 2023 – Sept 2023

*MATLAB developer Intern*

- Developed mathematical & AI based projects using **MATLAB**, focused on data visualization & data analysis by **90% error reduction**.
- Analyzed and processed datasets with **over 100,000 entries** to extract meaningful insights.
- Created comprehensive data visualizations, enhancing **data interpretability by 30% & accuracy by 25%**.

## PROJECTS

### Smart HealthCare System | *Embedded Software Programming & Interfacing, IoT Protocols, PCB Design & Assembly*

- Developed & **implemented a real-time healthcare system** that achieved data transmission and display **latency of less than 1 second**, providing accurate and timely health metrics.
- Optimized the system's power consumption by 30%**, ensuring continuous operation without any interruption.
- Conducted user testing**, reporting a **96% accuracy & 40% more cost-efficiency** for ease of use and data reliability.

### Smart Home Assistant | *Embedded Software Programming & Interfacing, IoT Protocols, PCB Design & Assembly*

- Designed and implemented Microcontroller based voice-controlled smart home automation system achieving **95% voice command recognition accuracy** within **20 meter range**.
- Enhanced user convenience, enabling control of up to **10 home appliances**, resulting in a **35% reduction in daily task completion time**.
- Implemented a cost-effective solution, **reducing project costs by 45%** compared to commercial smart home automation alternatives.