

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

Embedded Systems & IoT Engineer Intern

Dec. 2023 – March 2024

- 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

Java Developer Intern

Dec. 2023 – Jan. 2023

- 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.