MANYASHREE V

Bangalore, Karnataka

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PROFESSIONAL SUMMARY

Recent Bachelor of Electronic and Instrumentation Engineering (BE) graduate with expertise in Python, Java, Data Structures Algorithms (DSA), Embedded Systems, and Django. Passionate about software development and problem-solving, with hands-on experience in Edge Intelligent Impact Localization for Structural Health Monitoring using TinyML-Powered IoT Devices. Skilled in developing and optimizing IT and embedded solutions, leveraging AI/ML and IoT technologies. Adept at analyzing complex problems, designing efficient algorithms, and implementing scalable applications. Strong foundation in full-stack development, automation, and system integration. Enthusiastic about applying technical expertise, analytical thinking, and innovation to a dynamic IT software team. Eager to contribute to projects that enhance efficiency, intelligence, and automation in software and embedded systems.

PROJECTS

Edge Intelligent Impact for Structural health monitoring ⤴ | Arduino, TinyML, Python   Jan 2025

- Developed a real-time Structural Health Monitoring (SHM) system using TinyML-powered IoT devices.
- Utilized piezoelectric transducers (PZTs) to create a time-series dataset for impact detection.
- Designed an embedded intelligence-based SHM system with autonomous decision-making.
- Developed a systematic approach for damage classification (detection, localization, assessment, and prediction). Improved structural reliability and safety through real-time impact detection and analysis.
- Technologies:**Python, Machine learning.**

Smart Agriculture and Crop Protection System ⤴ | Embedded System, Arduino, Python   Nov 2024

- Collaborated in a 4-member undergraduate team on a Smart Agriculture and Crop Protection System, emphasizing **Embedded Systems** and **Python programming**.
- Developed a user-friendly solution for visually impaired individuals using **Arduino UNO, PIR Sensor,** and **Buzzers**.
- This mini project showcases expertise in IoT and Python, addressing accessibility challenges through innovative hardware integration.
- Technologies:**Python.**

EDUCATION

JSS ACADEMY OF TECHNICAL EDUCATION   **Aug 2023 – till date**

*BE in Electronics and Instrumentation Engineering - **CGPA - 8***   *Bangalore,India*

SRI CHAITANYA PU COLLEGE   **Jun 2020-Mar 2022**

*Courses: Physics, Mathematics, Chemistry, Computer Science - **Percentage - 84.9%***   *Bangalore,India*

TECHNICAL SKILLS

Languages: Python, Core Java, Django, MySQL
Technologies/Frameworks: HTML, CSS,

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- OOPS Concept
- Database Management System (DBMS)
- Web Development

CERTIFICATIONS

- Embeded System
- Python