Madhav Karthickk I

Bachelor Of Engineering

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🌐 Web Resume
in madhavkarthickki/
GitHub

Education

B.E in Mechatronics Engineering CGPA - 7.01   2020 - 2024
Kumaraguru college of technology   Coimbatore ,India

ISC - XII Percentage - 58.5   2018-2020
Riverside Public School   Kotagiri ,India

Skills summary

- **Language:** Python, Java
- **Frameworks:** Numpy, Pandas, Scikit-Learn, Matplotlib
- **Platform:** Pycharm, Visual studio code, Android Studio, Jupyter Notebook
- **Soft Skills:** Leadership, Attention to Detail, Problem-Solving, Teamwork

Experience and internships

Universal Automation systems Pvt Ltd Bangalore (Mar 2024-April 2024)
PLC Programmer

- Developed and implemented PLC programs with integration to SCADA systems, using LabVIEW.
- Focused on designing user-friendly HMI interfaces to improve operator efficiency.
- Conducted testing, debugging, and provided technical support during installation, along with contributing to technical documentation.

Ara Institute of Canterbury Ltd New Zealand (Jan 2023-Mar 2023)
Student internship

- Completed a three-month internship in New Zealand focused on Engineering System Analysis.
- Gained hands-on experience with race cars (F4, F3, F2, F1), engine mechanics, and components like camshafts and cylinder heads.
- Participated in track races, enhancing practical automotive engineering skills.
- The internship combined professional development with cultural exploration, shaping my future career in engineering and motorsports.

Projects

Smart portable and modular retail checkout device with web application (Dec 2023-April 2024)

- Utilized Raspberry Pi 5 for the project, installing Python and leveraging computer vision to achieve 96% accuracy in product detection.
- Created a user-friendly shopping platform with secure payment integration, using HTML, CSS, JavaScript, MongoDB, and Figma to ensure an efficient and secure shopping experience.
- Built a dynamic web application for managing cart products and enhancing user experience in retail environments, integrating with the previously developed authentication and payment systems.

Employee Attendance Management system in Coimbatore (Jan 2021-April 2021)

- Developed an Android attendance management system using Java in Android Studio, integrating Google Firebase for data storage.
- Designed a user-friendly interface for efficient attendance tracking and conducted rigorous testing.
- Utilized Java, Google Firebase, Android Studio, and Adobe XD for seamless development and effective results.

Automated vending and packing machine (Jun 2023-Nov 2023)

- Weighed and packed products according to customer specifications, employing ESP32 microcontrollers and programming with the Arduino IDE to ensure accuracy and reliability. Got accuracy of 98%
- Configured the RemoteXY App to facilitate seamless product control and integration, enhancing the user interface and interaction for efficient management.
- Utilized ESP32, Arduino IDE, and RemoteXY App to streamline product management processes, achieving high efficiency and responsiveness in handling customer requirements.

Certificates

- *Webinar on '**Digital Twin Solution for Autonomous Vehicles**' on 27 & 28 of March 2023.*
- *'**E Grid on Electric vehicles**' on 18, 19 & 21 of May 2022.*
- *Certificate of completion on '**Learn 5 PLCs in a Day-AB, Siemens, Schneider, Omron & Delta**' in Udemy on 20 December 2022.*
- *Certificate of completion on '**Engineering system analysis**' in New Zealand on 9 February 2023*
- *Certificate of completion on 'UI/UX Concepts and figma basics' in sns square on 9 & 10th Dec 2023*

Paper in IEEE

- ***Experimental and Simulation Analysis of Race car engines - Ford Cortina 1962 & Toyota G16E***
  - *This was our Third year project which compare the stock engine vs the modified engine in the Simulation Way using the Dat4T,EngMod4T and Post4t Software's.*