ADABALA SURESH

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Kanuru, Andhra Pradesh, 534329

CAREER ASPIRATION

Aspiring Embedded Systems Engineer with a strong foundation in microcontrollers, IoT, and AI solutions. Passionate about automation, real-time processing, and predictive modelling. Skilled in applying embedded technologies and machine learning to build smart, efficient systems.

EDUCATION

- **Bachelor of Technology** (Electronics and Communication Engineering) | 2021 - 2025 |Eswar College of Engineering | Grade: 7.77/10.0
- **Intermediate** (M.P.C) | 2019 - 2021 | Vikas Junior College, Samisragudem | Grade: 8.99/10.0
- **SSC** | 2018 - 2019 | Z.P.H.S Kanuru | Grade: 9.0/10.0

PROJECTS

- **Automatic Room Light and Fan Controller with Visitor Counter using Arduino UNO**
  Developed an automation system using Arduino UNO to control lights and fan based on real-time room occupancy. Used IR sensors for accurate visitor counting. Designed logic to automatically switch appliances ON when occupied and OFF when empty, ensuring energy efficiency. I built a simple energy management system using Arduino UNO (C/C++), IR sensors, relay modules, and LCD display.
- **WIFI Controlled Car with NodeMCU ESP8266 Controlled by Blynk**
  I Built a WIFI-controlled car using NodeMCU ESP8266 and the Blynk app for wireless smartphone control. Enabled real-time commands for smooth, responsive operation. Used NodeMCU (C/C++), Blynk IoT platform, DC motors, and L298N motor driver for an affordable IoT automation solution.

INTERNSHIPS

- **VLSI Design for Testability – BIST Technologies Pt. Ltd. |** January 2025 - April 2025
  Focused on improving fault detection, diagnosis, and reliability of integrated circuits. Gained Knowledge in test logic design and simulation using VHDL/System Verilog and EDA tools, strengthening skills in design verification, test pattern generation, and fault modelling.
- **A Real Time Application Development on Raspberry PI using IoT – SAK Informatics |** June 2024 - July 2024
  I Developed a real-time IoT application using Raspberry Pi, with Python, sensor integration, GPIO interfacing, cloud connectivity, and remote monitoring for smart automation. Strengthened skills in embedded systems and hardware-software integration.
- **Artificial Intelligence and Machine Learning Domain – APSSDC |** May 2024 - June 2024
  I developed a Sentiment Analysis project using Python, scikit-learn, and NLP techniques, with TF-IDF and Bag of Words for feature extraction. Trained models like Logistic Regression, SVM, and Naive Bayes for sentiment prediction.
- **Frontend Web Development – Skill Dunia |** August 2023 - September 2023
  I gained practical experience in creating responsive web pages with HTML, CSS, JavaScript, and Bootstrap, all while keeping user-friendly design and cross-browser compatibility in mind.
- **A Real Time Application Development on Embedded with IoT – IETE |** June 2022 - July 2022
  I gained practical experience in bringing together microcontrollers, sensors, and IoT modules to create smart automation systems. My main focus was on processing data in real-time and enabling remote monitoring.

CERTIFICATIONS

- **Digital Circuits – NPTEL |** July-October 2023
  I completed Digital Circuits (NPTEL) covering combinational and sequential circuits, Boolean algebra, K-maps, and flip-flops.
- **PCB Design Fundamentals & Advanced – APSSDC |** April 2023
  I Completed PCB Design Fundamentals & Advanced, covering schematic design, PCB layout, routing.

SKILLS

- **Programming Languages:** Python, C, Embedded C, VHDL/Verilog.
- **Machine Learning:** Naive Bayes, SVM.
- **Software Packages:** MySQL, MS Excel, Matplotlib, Figma.
- **Soft Skills:** Communication Skills, Responsibility, Critical Thinking, Teamwork, Creativity, Presentation Skills, Adaptability and flexibility.
- **Core Skills:** Basics of IoT, PCB Designing.
- **Others:** MS Office, Keyboarding Skills.
- **Languages Known:** Telugu, English, Hindi.

HOBBIES

- Passion for Emerging Technologies
- Passions Beyond Work
- Enjoy Playing Outdoor Team Games

DECLARATION

I hereby declare that the above information is true to the best of my knowledge