

ADABALA SURESH

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PROFILE SUMMARY

Motivated and versatile fresher with a strong foundation in software development and data engineering. Skilled in Python and Java for application development, with hands-on experience in building full-stack projects using React.js, Node.js, HTML, CSS, and JavaScript. Learning and practicing data engineering concepts such as SQL, Python scripting, ETL pipelines, and data processing for analytics. Familiar with version control (Git), REST API integration, and basic cloud tools, while continuously exploring modern frameworks and best practices. Strong problem-solving abilities, adaptability, and eagerness to learn make me ready to contribute effectively as a Python Developer, Java Developer, Full Stack Developer, or Data Engineer.

EDUCATION

Eswar college of Engineering, kesanupalli

CGPA:7.77/10

B.Tech (Electronics and Communication Engineering)

2021-2025

TECHNICAL SKILLS

- **Front-End Technologies** : HTML, CSS
- **Programming Languages** : Java, Python
- **Frameworks and Databases** : Bootstrap, MySQL
- **Developer Tools** : VS Code, Google Collab, Git, GitHub, Eclipse
- **Operating System** : Windows
- **Other Skills** : Data Analysis, Machine Learning, MS Office, Computer Networks

SOFT SKILLS

Problem-Solving | Critical Thinking | Team Work | Adaptability | Creativity | Time Management

INTERNSHIP

Home Authorization based Automatic Systems IoT Intern | SAK Informatics

Jun - Jul, 2024

- Enhanced a real-time IoT-based smart door lock on Raspberry Pi using Python and OpenCV for facial recognition. Blended camera, cloud alerts, and hardware control for secure, automated access.

Artificial Intelligence and Machine Learning Domain Intern| APSSDC

May - Jun, 2024

- Built a sentiment analysis model using Python, scikit-learn, and NLP to classify restaurant feedback as positive, negative, or neutral. Processed text data, trained ML models, and improved accuracy through feature engineering.

Frontend Web Development Intern | Skill Dunia

Aug - Sep, 2023

- Developed responsive web interfaces using HTML, CSS, and JavaScript to perform CRUD operations. Merged frontend forms with backend APIs for creating, reading, updating, and deleting data.

PROJECTS

AUTOMATIC ROOM LIGHT AND FAN CONTROLLER WITH VISITOR COUNTER

- Improved a microcontroller-based automation system using Arduino UNO, IR sensors, and relay modules to automatically control room lights and fans based on real-time occupancy.
- **Achieved 35% energy savings** by ensuring devices operated only when needed. Integrated an LCD for accurate visitor count display and implemented threshold-based fan activation for enhanced comfort.
- Developed entry/exit detection logic with IR sensors, **ensuring over 95% counting accuracy** and eliminating manual intervention.
- Designed as a low-cost, scalable solution suitable for classrooms, offices, and homes, capable of handling 100+ daily user interactions without performance loss.

WIFI Controlled Car with NodeMCU ESP8266 Controlled by Blynk

- Implemented a WiFi-enabled robotic car using NodeMCU ESP8266, L298N motor driver, and DC motors, enabling mobile control via the Blynk IoT platform.
- Developed bidirectional communication between mobile app and hardware, **achieving <200 ms latency** for real-time control.
- Integrated PWM-based motor speed control and directional algorithms, **improving navigation accuracy by 25%**.
- Utilized Arduino IDE, C++, and IoT cloud connectivity for programming, network configuration, and seamless user interface integration.

CERTIFICATIONS AND ACHIEVEMENTS

- Earned NPTEL certification in Digital Circuits with a score of 55%.
- Participated in RBI90 Quiz conducted by Reserve Bank of India.
- Represented Andhra Pradesh as Vice-Captain in the Sub-Junior category in the year 2020 National Level Kabaddi Championship.