TEJAS YADAVALLI

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LINKDEN | GITHUB | Portfolio

PROFILE

Electronics and Communication Engineering student with strong hands-on experience in embedded systems, IoT, AI-integrated applications, and full-stack web development. Proficient in Python, C, JavaScript, SQL, and Django, with practical exposure to PCB design, sensor integration, and microcontroller programming. Built real-world projects combining AI and IoT, including an ESP32-based Gemini Chat Assistant and a Django-based e-commerce platform. Adaptable, fast learner, and motivated to contribute to innovative engineering teams.

EDUCATION

ELECTRONICS & COMMUNICATION ENGINEERING | BTECH	-present
ELECTRONICS & COMMUNICATION ENGINEERING | DIPLOMA	May 2025
Aditya Engineering College	*average 94%*

- Relevant Coursework: Microprocessors, Digital Electronics, Communication systems, MATLAB, c
- Projects: Smart irrigation system using Arduino uno – Mini project

SECONDARY EDUCATION | S P H H M HIGH SCHOOL	MAY 2022

SKILLS

Programming Languages: Python, C, JavaScript, HTML, CSS, SQL
Web & Backend: Django, REST APIs, SQLite
AI & Data: Artificial Intelligence, Google Gemini API
Embedded & IoT: Arduino, ESP32, Embedded C, Sensors, IoT Systems, Robotics
PCB & Tools: EasyEDA, Autodesk Eagle, PCB Designing, MATLAB
Developer Tools: Git, GitHub, VS Code, Vibe code apps
Soft Skills: Problem Solving, Adaptability, Time Management, Team Collaboration

INTERNSHIP EXPERIENCE

DIPLOMA TRAINEE | RESOLUTETM GROUP |	MAY 2024 – NOVEMBER 2024

- Assisted in embedded electronics development, component integration, and system testing.
- Worked on PCB schematics, hardware validation, and preventive maintenance.
- Conducted quality inspections and supported troubleshooting of electronic systems.

PROJECTS

Smart Irrigation system | GITHUB

- Designed an automated irrigation system using Arduino Uno with soil moisture sensor and LCD display, optimizing water use based on real-time soil data.

Chat Assistant on an ESP32 | GitHub

- Developed a Gemini Chat Assistant on an ESP32 microcontroller. Integrated the Gemini API with Arduino to enable real-time interaction with the language model. Demonstrated successful command and response exchange, showcasing the potential for AI-powered embedded systems.

Customized Arduino | GITHUB

- Developed a tailored version of the Arduino hardware by making its schematic and PCB layout to meet required specific requirements.

ElectroCart | GITHUB | Live Site

- Full-stack e-commerce web application built with Django.
- Implemented authentication, product catalog, cart, orders, and payments
- Deployed with SQLite backend and responsive HTML/CSS frontend.
- Tech stack: Django, Python, HTML, CSS, JavaScript, SQLite, Render.

Skill seek | GITHUB | Live Site

- SkillSeek is a Django-based web application that connects users with skilled workers for various services. It allows users to browse categories and subcategories of services, book workers, manage bookings, and communicate via chat.

CERTIFICATIONS

- Introduction to Artificial Intelligence – IBM / Coursera
- HTML & CSS – Meta / Coursera
- Generative AI – Internshala
- Programming with JavaScript – Meta
- Version Control – Meta
- Python – Cisco Networking Academy
- Embedded Systems – NSDC / Internshala
- PCB Designing – NSDC / Internshala
- Arduino & IoT – Cisco / Udemy
- MATLAB – MathWorks