

# AJAYBABU PAKALA

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## PROFILE SUMMARY

Motivated B.Tech final-year student in Electronics and Communication Engineering with skills in Python, Flask, and front-end web development. Developed AI-powered and web-based applications such as a Quote Generator and Portfolio Website. Passionate about software development, problem-solving, and applying emerging technologies to real-world challenges.

## EDUCATION

<b>Gayatri Vidya Parishad College of Engineering</b> <i>Bachelor of Technology in Electronics and Communication Engineering</i>	Nov 2022 – Present (CGPA - 8.30/10.00)
<b>Sri Chaitanya Jr College</b> <i>Board of Secondary Education, Andhra Pradesh, India</i>	Sept 2020 - May 2022 (Marks - 913/1000)
<b>Maitreya Vidya Mandir</b> <i>Board of Secondary Education, Andhra Pradesh, India</i>	May 2020 (Marks - 552/600)

## TECHNICAL SKILLS

**Languages:** Python, C  
**Web:** HTML, CSS, JS  
**Frameworks:** Flask  
**Developer Tools:** Git, VS Code, Visual Studio  
**Soft Skills:** Problem Solving, Team Working

## PROJECTS

### Portfolio Website | *Flask, HTML, CSS, JavaScript*

- Designed and developed a personal portfolio website to showcase academic projects, technical skills, and achievements.
- Implemented a fully responsive and visually appealing user interface using HTML5, CSS3, and JavaScript.
- Added interactive project sections, smooth navigation, and optimized layout for desktop and mobile devices.
- Strengthened front-end development skills and understanding of modern web design practices.

### Random Quote Generator | *Flask, HTML, CSS, JavaScript*

- Created a dynamic random quote generator web app using Flask for backend logic and JavaScript for client-side interactivity.
- Implemented functionality to display random motivational quotes upon each button click or page load.
- Designed a clean and responsive interface using HTML and CSS to enhance user experience.
- Improved skills in Flask-based web development, API handling, and front-end-back-end integration.

### Jarvis – AI Voice Assistant | *Python*

- Developed a personal AI voice assistant using Python, integrating voice recognition, text-to-speech, wake-word detection, and conversational logic.
- Implemented features such as YouTube playback, joke-telling, time/date retrieval, and Question and Answer functionality using the Sera API.
- Enhanced skills in Python programming, speech processing, API integration, and real-time human-computer interaction through hands-on development.

### Plagiarism Checker | *Python*

- Developed a plagiarism detection tool using Python, leveraging TF-IDF vectorization and cosine similarity to compare text files.
- Automated the scanning of multiple student documents to calculate similarity scores and flag potential plagiarism cases.
- Enhanced skills in natural language processing (NLP), feature extraction, similarity metrics, and handling real-world text datasets.

### **RAG Picking Rover | IOT**

- Collaborated with a team to design and develop a Rag-Picking Rover equipped with a Wi-Fi-controlled camera for efficient remote waste collection.
- Contributed to research, assembly, and implementation of real-time monitoring and control features.
- Ensured reliable operation and developed user-friendly control mechanisms for smooth remote functionality.
- Gained hands-on experience that enhanced teamwork, technical problem-solving, and the practical application of robotics and IoT technologies in real-world scenarios.

### **PARTICIPATIONS**

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- Radian 2K24 Project Expo (ANITS College , VSP)
- Gamantra 2K24 Project Expo(KITS College , Kakinada)

### **INTERNSHIPS**

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- Intelligent Automation Virtual Internship
- AWS AI-ML Virtual Internship
- Completed the internship at AD Infocom Systems in the domain of “Python Programming”

### **DECLARATION**

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