

# AJAYBABU PAKALA

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## EDUCATION

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### Gayatri Vidya Parishad College of Engineering

*Bachelor of Technology in Electronics and Communication Engineering*

Nov 2022 – Present

(CGPA - 8.30/10.00)

### Sri Chaitanya Jr College

*Board of Secondary Education, Andhra Pradesh, India*

Sept 2020 - May 2022

(Marks - 913/1000)

### Maitreya Vidya Mandir

*Board of Secondary Education, Andhra Pradesh, India*

May 2020

(Marks - 552/600)

## TECHNICAL SKILLS

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**Languages:** Python, C

**Web:** HTML, CSS, JS

**Frameworks:** Flask

**Developer Tools:** Git, VS Code, Visual Studio

**Soft Skills:** Problem Solving, Team Working

## PROJECTS

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### 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.

### Jarvis – AI Voice Assistant | *Python, AI/ML*

- 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, AI/ML*

- 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.

## 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”