AJAYBABU PAKALA

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EDUCATION

Gayatri Vidya Parishad College of Engineering Nov 2022 – Present
Bachelor of Technology in Electronics and Communication Engineering *(CGPA - 8.30/10.00)*

Sri Chaitanya Jr College Sept 2020 - May 2022
Board of Secondary Education, Andhra Pradesh, India *(Marks - 913/1000)*

Maitreya Vidya Mandir May 2020
Board of Secondary Education, Andhra Pradesh, India *(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

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*
- 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.

PARTICIPATIONS

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

INTERNSHIPS

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