

# SOWMIKA ARRURI

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## EDUCATION

- **Vasavi College of Engineering, Hyderabad** 2022-Present  
BE in Computer Science Engineering (Artificial Intelligence and Machine Learning) **8.87** CGPA
- **SR Junior College, Hyderabad** 2020-2022  
Telangana State Board of Intermediate Education **98.3** Percent

## TECHNICAL SKILLS AND INTERESTS

- **Programming:** Python, Java, C, SQL, JavaScript.
- **Tech Stack :** HTML5, CSS3, Pandas, Matplotlib, Seaborn, Scikit-learn, Express.js, Node.js.
- **Tools :** VS Code, Google Colab, Jupyter Notebooks.
- **Soft Skills:** Communication skills, Adaptability, Teamwork, Critical thinking, Problem Solving.

## PROJECTS

- **Credit Card Fraud Detection System**  
Python, Pandas, Scikit-learn, Matplotlib
  - Developed a machine learning model to detect fraudulent credit card transactions using Python and Scikit-learn with precision-based classification models.
  - Used Pandas and NumPy for analysis and Matplotlib for clear visualizations.
  - Evaluated model using Precision, Recall, F1-score and Confusion Matrix.
- **Smart Resume Parser**  
Python, OpenAI GPT API, LangChain, Streamlit, PDFMiner
  - Developed an AI-powered resume parser that extracts and summarizes key candidate information (e.g., name, skills, education, experience) from uploaded PDF resumes.
  - Used PDFMiner to accurately extract and structure data from PDF documents. Integrated OpenAI's GPT API via LangChain to semantically understand and generate structured output.
  - Built an interactive and user-friendly Streamlit web app for real-time analysis and visualization of resume content.
- **Speech Emotion Recognition**  
Python, Hugging Face Transformers, Wav2Vec2, PyTorch
  - Built a deep learning model using wav2vec2 to recognize human emotions (happy, sad, angry, neutral) from audio files.
  - Preprocessed audio datasets and fine-tuned pretrained wav2vec2 embeddings for speech emotion classification and achieved accurate emotion detection through model training, evaluation, and visualization of results.

## POSITIONS OF RESPONSIBILITY

- **Core Member:** Arts Club and NSS Club, VCE.

## ACHIEVEMENTS AND CERTIFICATIONS

- **FFE Mentee:** Recognized as an "Outstanding Mentee" in the FFE Mentorship Program.
- **NPTEL - Joy of Computing Using Python:** Scored 83 percent in the course conducted by IIT.
- **CISCO NETACAD:** Earned Certifications in Introduction to Cybersecurity, Switching, and Routing.
- **Infosys:** Certified in Cloud Computing, Prompt Engineering, NLP, OpenAI GPT.
- **IBM SkillsBuild:** Completed Courses in AI Fundamentals, Explore Emerging Tech, Mindfulness.