Sanjana Gurbani

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Education

Vellore Institute of Technology (VIT), Bhopal — 2022-2026
B.Tech in Computer Science and Engineering — CGPA-**9.08**

Technical skills: Java, C++, Python, JavaScript, CSS, HTML, SQL, Git, Jenkins, Docker, Google Colab,VS Code

Projects

Vision speak — Feb 2024 – May 2024
• Built an AI-driven text-to-speech system that converts both text and images into natural, expressive speech for enhanced accessibility.
• Implemented OCR for accurate text extraction from images and utilized the SpeechSynthesisUtterance API for real-time audio output.
• Optimized speech clarity and responsiveness, ensuring a seamless and user-friendly experience for visually impaired users.
Technologies Used: HTML, CSS, JavaScript, Node.js, Tesseract.js (OCR), SpeechSynthesisUtterance API

Anemia Detection using Conjunctiva Images — Feb 2025-May 2025
• Built an AI-driven anemia detection model leveraging conjunctiva images, achieving 93% accuracy with CNN.
• Boosted accuracy to 95% by integrating a Random Forest Classifier for refined feature extraction.
• Processed 4,262 high-quality images, ensuring robust training, and achieved a 96% recall rate for accurate diagnosis.
Technologies Used: Python, OpenCV, TensorFlow, Keras, Machine Learning, Deep Learning, CNN, Random Forest

Carbon Footprint Calculation Website — July 2023 – Sep 2023
• Developed a web-based Carbon Footprint Calculator with a React UI and Python backend for accurate emissions estimation.
• Implemented a user-friendly data collection system to generate personalized reports with actionable insights.
• Provided custom sustainability recommendations to help users reduce their carbon footprint.
Technologies Used: HTML, CSS, Bootstrap, JavaScript, Python

Achievements and Extracurricular Activities

• **Top 10 Finalist – Arthneeti, IIM Nagpur :** Secured a Top 10 position for proposing a sustainable EV infrastructure plan for rural India in a national-level public policy competition.
• **Top 250 Finalist – Walmart CodeHers :** Ranked in the top 0.2% out of 113K+ participants in one of India's largest women-centric coding competitions by Walmart Global Tech.
• Core Member – Data Science Club and member – Cisco Community : Led ML workshops and coding sessions; contributed to organising speaker sessions on data science, AI, and emerging technologies.
• Performer – Advitya Fest & Cultural Events : Represented college in Indian classical and fusion dance competitions, promoting cultural engagement and team coordination.

Certifications

• Oracle Global Java Developer Professional Completion Certification - Oracle
• Cloud Computing Silver Certification - NPTEL (Top 2%)
• DevOps Certification-IBM

Additional

Languages: Hindi, English, Conversational Proficiency in Sindhi