Kiah Vaidya

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Academic Projects

Music Genre Website

- Displays music recommendation based on mood and genre.
- The website suggests songs based on user preferences and interactions, improving user engagement.

Portfolio Website

- A personal portfolio website highlighting my work, expertise, and achievements.
- Built a dynamic, user-friendly web application using html, js and react.

Voice Assistant

- A a Python-based voice assistant powered by the ElevenLabs Conversational AI API.

Discord Meme Bot

- A a Python-based simple bot that replies with a random meme from Reddit when you type $meme.
- Built using python and runs continuously using Railway.

Battery Level Indicator Circuit

- Designed a battery level indicator to monitor charge levels and display real-time status.
- Used comparators and voltage dividers to detect battery percentage, ensuring efficient power management and preventing over-discharge.

Enhancement of Permanently Shadowed Regions of Lunar Craters (Chandrayaan-2 OHRC)

- Worked on enhancing lunar crater images captured by Chandrayaan-2's Orbiter High-Resolution Camera (OHRC).
- Applied image processing techniques to improve visibility in shadowed regions, aiding lunar exploration and potential resource identification.

RC Car Using Arduino

- Developed an Arduino-controlled RC car with Bluetooth or RF remote functionality.
- Integrated motor drivers and sensors for movement control and obstacle detection, improving maneuverability and responsiveness.

COA Flappy Bird Game

- Implemented a Flappy Bird game simulation as part of a Computer Organization and Architecture (COA) project.

- Focused on hardware-level execution, instruction cycles, and performance optimization, demonstrating core CPU and memory interactions.

Python Memory Game

- Developed a memory-based game in Python using Tkinter, with an interactive scoring system.

Education

S.E Electronics and Computer Science

VIT- Wadala , CGPA –9.35

12th(Senior Secondary Examination)

HSC Board- 69.50%

10th (Secondary Examination)

ICSE Board- 96.40%

Technical skills

- Programming Languages- Python
- Web Technologies- MySQL, HTML, CSS
- Software: Matlab, AutoCAD , Canva

Certifications

- Harvad's Cs50 (edx)
- Python Bootcamp (udemy)
- TCS ion
- MATLAB Onramp
- MATLAB Fundamentals

Extra-curricular Activities

- **Creatives Head at Electronics and Computer Science Student Association [ECSA]:** Spearheaded the workforce of creatives, mentoring and guiding designers to harness their full potential while strategically overseeing all aspects of design to ensure cohesive and impactful visual communication
- **Member of Student Council (Cultural and Creatives Team):** Played a pivotal role in conceptualizing and executing large-scale installations for college events and cultural programs, transforming ideas into visually compelling experiences. Contributed to the planning and organization of major college events, ensuring seamless execution through innovative design and creative storytelling.
- **Member of Google Developer Group [GDG] (Media Team) :** Part of the media team, responsible for crafting engaging digital content across social media platforms to enhance outreach and community engagement. Worked on strategic branding, content creation, and visual storytelling, amplifying the impact of GDG initiatives while maintaining a cohesive and professional online presence.

- **Creative Freelancer:** Conceptualized and executed innovative design projects, demonstrating expertise in digital and print media.