Aasrika Kambhampati

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I am an ambitious Computer Science Engineering student currently pursuing a B.Tech degree. Passionate about technology and innovation, I am seeking an opportunity to apply my knowledge and skills in a dynamic environment while continuously learning and growing.

EDUCATION

RV University, Bengaluru, B.Tech in Sept 2023-current
Computer Science Engineering
C*GPA: 8.37*

EXPERIENCE

Center for Applied and Responsible AI(CARA), Bengaluru, Karnataka, India Jun 2024 – Sept 2024
Research Intern

- Trained and fine-tuned a YOLOv10 model to accurately detect and classify waste into categories while implementing and optimizing object detection techniques to enhance accuracy and real-time performance in automated waste management.
- Gained hands-on experience in AI and machine learning techniques, demonstrating strong critical thinking and problem-solving skills in developing efficient waste classification models.

ACADEMIC PROJECTS

Accident Prevention System for curvy roads
Team Size: 6 Feb 2024 – May 2024

- Developed a smart Accident Prevention System for curvy roads to detect approaching vehicles and alert drivers using IR sensors, weight sensors, and Arduino UNO.
- Utilized components like HX711 amplifier, buzzer, LED, and LCD display, along with C++ programming for microcontroller integration.

Tails of Hope (Pet Adoption Center) Sept 2024 – Nov 2024
Team Size: 4

- Created "Tails of Hope," a web-based platform for pet adoption centers to manage and update pet details, adoption status, and availability.
- Implemented the backend using Python and MySQL for efficient database management and real-time data updates.

DishCraft (Recipe Suggestion Application) Sept 2024 – Nov 2024
Team Size: 2

- Developed "Dishcraft," a recipe suggestion web app using Java and CSV for data storage, allowing users to find recipes based on available ingredients. Enabled users to add new recipes, which are dynamically stored in the CSV file.

Address Binding Visualizer Sept 2024 – Nov 2024
Team Size: 1

- Developed an Address Binding Visualizer using HTML, CSS, and JavaScript to demonstrate the mapping of logical addresses to physical addresses. Designed an interactive interface for better understanding of memory management concepts.

SKILLS

Technical Skills: Python, Java, C, C++, Solidity, HTML, CSS, SQL, Javascript
Research Skills: Conducted research on AI-based waste segregation, including dataset collection and model training, and authored a research paper on the findings (yet to be published).
Soft Skills: Adaptability, Teamwork, Problem-solving, Critical thinking, Attention to detail

CERTIFICATIONS

***Certifications*:** Discrete Mathematics IIT Madras NPTEL-Swayam (12 weeks), Digital Forensics EC-Council (12 weeks)

EXTRA-CURRICULAR

- Attended a hands-on workshop ‘LogicBegin’, the event was about how to build circuits using breadboards and integrated circuits.
- Attended a workshop on Ethical Hacking
- Participated in Hackathons