

Bhupendra Huidrom

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PROFILE

B.Tech Graduate in computer science and engineering. Looking to apply my skills and assist with the implementation of innovative ideas and add resourceful working to achieve the corporation's success as well as success for myself as a valuable representation.

PROJECTS

Detection and segregation of plastic waste using a Robotic arm 03/2023 – 07/2023

- Trained and fine-tuned YOLOv5 model to detect and classify plastic waste objects with 90%+ accuracy, resulting in a 50% reduction in false positives and increased operational efficiency.
- Meticulously fine-tuned hyperparameters within YOLOv5 to optimize the detection accuracy, ensuring a minimal margin of error and improved overall performance by 15%.
- Integration of a Robotic Arm with Raspberry Pi. This enabled us to automate the segregation process immediately upon the detection of plastic waste, improving both speed and efficiency.

Personal Portfolio Webpage 07/2023 – 07/2023

- Designed and developed a personal portfolio website showcasing a collection of projects and skills.
- Utilized CSS for styling, incorporating a modern and cohesive design that reflects a keen eye for aesthetics.
- Implemented JavaScript for interactive elements, enhancing user engagement and providing a dynamic browsing experience.
- Successfully deployed the portfolio website using Netlify, making it accessible online for potential employers and collaborators.

Sorting-Visualizer (Bubble Sort) 12/2023 – 12/2023

- Developed a responsive Bubble Sort visualizer using React, demonstrating proficiency in React components, state management, and dynamic UI rendering.
- Implemented the Bubble Sort algorithm with step-by-step visualization, showcasing algorithmic understanding and problem-solving skills.
- Enhanced user experience by incorporating controls for array size, animation speed, and interactive sorting, achieving an engaging and educational application.

Todo-App using React 12/2023 – 12/2023

- Created a dynamic To-Do application using React with features for task addition, editing, deletion, and completion tracking.
- Demonstrated strong understanding of React fundamentals, including component-based architecture, props, and state management.
- Implemented conditional rendering for enhanced user experience and utilized event handling for efficient user interactions.

Voice Assistance Using Python 12/2021 – 05/2022

- Designed and developed a voice assistance system using Python, which recognizes spoken commands with high accuracy.
- To enhance the user experience, I employed the SpeechRecognition module, ensuring the voice recognition component performed seamlessly.
- The Pyttsx3 module was utilized for converting text to speech, employing the Sapi5 technology for high-quality and natural-sounding responses.

SKILLS

Programming Languages | Python | C++ | **Front-End Development** | Java Script | HTML | CSS | ReactJs | MySQL | DBMS | Bootstrap | **Computer Vision**

Field of Interest

Front-End Web Development, Web Development, Computer Vision

EDUCATION

B.Tech (Bachelor of Technology) in Computer Science and Engineering 07/2019 – 07/2023
Sikkim Manipal Institute of Technology Majhitar, India

ORGANIZATIONS

Google Developer Student Club 07/2021 – 07/2022
Core Member(Management)