PAVITHRA MANCHIKATLA

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Education

Chaitanya Bharathi Institute of Technology   Sep. 2023 – June 2026
Bachelor of Engineering in Computer Science with 9.26 CGPA   *Gandipet, Hyderabad*

Kamala Nehru Polytechnic for Women   2020-2023
Diploma in Computer Engineering with 9.84 CGPA   *Nampally,Hyderabad*

Relevant Coursework

- Data Structures
- Machine Learning
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet of Things
- Cryptography and Network Security
- Operating systems
- Computer Networks

Experience

Defense Research and Development Laboratory   July 2024 – August 2024
Internet of things   *Karmanghat, Hyderabad*

- Developed the project"Object Detection and Distance Monitoring System", this project successfully demonstrates the integration of ultrasonic distance measurement, servo motor control, and real-time video streaming with object detection. It leverages a combination of hardware components like ultrasonic sensors, servo motors, and cameras, along with software frameworks such as OpenCV, Flask, and SQLite, to create a versatile and functional system.

Projects

Blood bank management system | *Python, sql lite ,html, CSS, Django*   Nov 2022

- This website will store the details of blood ,Patients can book their appointments and consult the donor with their details.
- Reduces manual work for blood banks.
- Improves transparency between donors and patients.
- Saves lives by ensuring timely access to blood.

Almuni Association platform | *html,CSS,javascript,node.js,express.js,mongodb*   2024

- The platform allows students and alumni to find nearby alumni for networking purposes.
- Both alumni and students can register for upcoming events and view past events.
- Students can showcase their achievements, request mentorship, join groups, register for events, and search for job opportunities.

OBJECT DETECTION AND DISTANCE MONITORING SYSTEM | *Raspberry Pi,Machine Learning*   2024

- The project's ability to detect objects, measure distances, and respond with automated actions, such as servo motor rotation, showcases its potential in various practical applications, including home security, industrial automation, and smart home systems.
- This project successfully demonstrates the integration of ultrasonic distance measurement, servo motor control,Raspberry Pi and real-time video streaming with object detection.

HUMAN POSE DETECTION USING MACHINE LEARNING | *Ai,Python,Streamlit*   2025

- Identifying and tracking key points of the human body in an image and video.Streamlit library makes it easy to build and share interactive, web based applications.
- The project provides solutions for critical domains such as healthcare, fitness, sports, surveillance, and entertainment by automating the analysis of body movements, enhancing accuracy, and reducing manual effort.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code,Turbo C++,MySql,Oracle
Technologies/Frameworks: Linux, Github