ABHISHEK PATIL

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Professional Summery

Motivated and detail-oriented final-year Computer Science and Engineering student with a good foundation in software development and a passion for building innovative solutions. Currently working on a personal assistant project, showcasing skills in programming, problem-solving, and creative thinking. Dedicated to continuous learning and eager to contribute to impactful tech projects.

Projects Works

Fitness Monitoring System

- **Project Overview:** Developed a system to monitor fitness activities using computer vision techniques and real-time feedback.
- **Technologies Used:**
- Utilized the Mediapipe library to extract landmarks for pose estimation.
- Implemented exercise-specific logic using Python to calculate angles and landmark positioning.
- Integrated the pyttsx3 library to provide audio feedback for user guidance.
- Designed the user interface with HTML, CSS, and JavaScript for a seamless experience.

Herbarium: A smart digital garden

- **Project Overview:** Built an interactive 3D virtual garden to explore medicinal plants with dynamic popups, quizzes, and AI assistant. Integrated clickable GLTF models, user session tracking, and cloud-based asset management for an immersive educational experience.
- **Technologies Used:**
- Developed 3D interactive plant environment using React, Three.js, and GLTFLoader
- Managed plant data and user sessions with Node.js, Express, and MongoDB
- Stored 3D assets and images in AWS S3 for efficient delivery
- Added quiz-based gamification and JWT authentication
- Integrated a GPT-based AI assistant for herbal information support

skills

- Proficient in Python with a strong understanding of basic programming concepts.
- Skilled in creating basic CRUD APIs using Flask framework.
- Experience working with MySQL for database management.
- Experience working with React, Express.js, and MongoDB, and currently expanding expertise into building full-featured, production-ready applications using the MERN stack.

Education

M S Ramaiah University of Applied Sciences, Bengaluru

B-tech in computer Science | 2021-2025

CGPA: 8