

Aromal S Kunnel

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EDUCATION

VIT Bhopal University

B.Tech Computer Science & Engineering (Artificial Intelligence & Machine Learning)

CGPA: 8.04/10.0

Bhopal, India

2022 – 2026

Hills' High School

CBSE 12th (2022): 71.66%, CBSE 10th (2020): 91.20%

Vesu, Surat

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: Flask, PyTorch, Node.js, React.js, BeautifulSoup

Developer Tools & Platforms: Git, Docker, YOLOv8, Gemini API

Core CS Concepts: Data Structures, Algorithms, Object-Oriented Programming

Architectural Concepts: REST APIs, Microservices, Object Detection

PROJECTS

CalmSphere - Anonymous Resource Platform

Key Skills: Python, Flask, JavaScript, SQLite, BeautifulSoup, REST API, HTML5, CSS3

- Architected a dual-component system featuring a public-facing, anonymous resource portal and a private admin dashboard for a safe user experience and high-quality, up-to-date information.
- Engineered an automated data pipeline using Python (BeautifulSoup, Requests) to scrape, stage (SQLite), and securely publish vetted NGO information, ensuring data integrity and freshness.
- Designed and implemented a stateless, secure REST API and a lightweight vanilla JavaScript frontend, prioritizing complete user anonymity with a one-click "Quick Exit" and zero data logging.

VoiceOS - LLM based Voice Assistant for Windows

Key Skills: Python, FlaskWebGUI, JavaScript, HTML5, CSS3, GeminiAPI

- Developed an interactive graphical user interface (GUI) using FlaskWebGUI, JavaScript, HTML5, and CSS3, significantly enhancing user experience and accessibility for the voice assistant.
- Enhanced GUI with user-profile customization, multi-theme support, and direct file/image input for LLM interaction, improving user customization and data versatility.
- Enabled seamless user interaction with LLMs/APIs, input processing, and task execution (e.g., web scraping, scripting, code compilation, automation, summarization) through the intuitive GUI.

Custom Object Detection Model Development

Key Skills: Python, PyTorch, YOLOv8, Object Detection, Deep Learning, Model Training, Dataset Preparation, Performance Optimization

- Developed and optimized a custom object detection model (YOLOv8) using PyTorch for real-time object recognition as part of a university-led Smart Vision Glasses initiative.
- Trained the model on over 150,000 images across 100+ object classes, achieving a 80.23% accuracy for reliable performance.
- Delivered the fully trained model for seamless integration with the project's core vision system, enabling crucial environmental awareness for visually impaired users.

ACHIEVEMENTS

- VOS – An OS Assistant Based On LLM, was selected for publishing in Hinweis Third International Conference on Networking, Communication and Computing Technology (NCCT).
- Our team was selected as an internal round finalist for SIH 2024.

INTERESTS, HOBBIES & OTHER SKILLS

- Brain Puzzles
- Exploring Cyber Security Trends
- Languages Known: English, Hindi, Malayalam, Gujarati, Japanese N5 (learning)