KOPPULA HARISH REDDY

Full Stack Developer

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SUMMARY

Computer Science undergraduate specializing in Artificial Intelligence and Machine Learning. Experienced in building Python and Java-based applications, web technologies, and using APIs. Strong team player with excellent communication skills and a passion for problem-solving. Looking for an entry-level role in software development or as a Full Stack Developer .

EDUCATION

B.TECH In CSE-AIML , Kalasalingam Academy Of Research And Education	2021-2025
Higher Secondary Education , Sri Chaitanya Arts and Science Junior College	2019-2021

SKILLS

Programming Languages	Java,Python,C
Databases	Oracle, MySQL, NoSQL, MongoDB
Developer Tools	Git, VS Code, Eclipse
Operating Systems	Windows, Linux
Cloud Platform	Google Cloud Platform (GCP)
Soft Skills	Team Player, Self-motivated, Effective Communicator

PROJECTS

Balanced Bites Blueprint— *Personalized Nutrition Recommendation System* :

- **Built a machine learning model** to recommend personalized meal plans based on caloric needs, dietary preferences, and health goals, achieving **92% accuracy** on validation datasets.
- **Engineered a full data pipeline** integrating user inputs, BMI calculations, and nutritional databases, automating diet generation and reducing manual planning time by **80%**.
- **Designed an interactive Flask-based web dashboard** with Chart.js for dynamic visualization of nutrient breakdowns, improving user engagement by **40%** in early user testing.

Gesture-Controlled Mouse :

- Engineered a gesture-controlled virtual mouse system with 95% detection accuracy using OpenCV and Google's MediaPipe, enabling real-time hand tracking at ~30 FPS on standard hardware.
- Implemented intuitive gesture mapping (e.g., index movement for cursor, pinch for click) to simulate mouse control, achieving over **90% usability rating** in peer testing and eliminating need for physical peripherals.
- Reduced latency by 40% via frame-skipping and threading, and packaged solution for cross-platform use in Python using PyAutoGUI, making it accessible for users with limited physical mobility.
- **GitHub:** github.com/Harish701-hue/GESTURE-CONTROLLED-MOUSE

CERTIFICATIONS

- Data Analytics Job Simulation -Deloitte
- Artificial Intelligence Primer Certification-Infosys
- SQL (Intermediate) - HakerRank
- Hackthon -IITDM Kancheepuram (E-SUMMIT'24)