BALAPREMIKA KANTHASAMY

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PROFESSIONAL SUMMARY

Motivated and detail-oriented B.Tech graduate in Artificial Intelligence and Data Science with practical experience in Python, SQL, data analytics, and machine learning. Proven ability to build AI-powered applications and visual analytics dashboards. Strong grasp of OOP, SDLC, and cloud fundamentals. Passionate about developing scalable tech solutions and eager to contribute to dynamic teams in the software industry.

EDUCATION

Rajalakshmi Institute of Technology, Chennai
B.Tech in Artificial Intelligence and Data Science
CGPA : 8.08
2021 – 2025

Maharishi Vidya Mandir Matric Hr. Sec. School
Higher Secondary Certificate (HSC)
Percentage: 87.63
 2020 – 2021

SKILLS

- Programming: Python, Java, JavaScript, SQL, Node.js, HTML5, CSS3
- Frameworks/Tools: Git, Power BI, VS Code
- Cloud: Microsoft Azure (basic), AWS (Cloud Practitioner)
- ML Libraries: Pandas, NumPy, Scikit-learn, MediaPipe, TensorFlow, Webcam
- Methodologies: SDLC
- Microsoft Office Suite (Word, Excel, PowerPoint)

PROJECT

Real-Time Hand Gesture Control System for Mouse and Scroll Operations:

Tools: Python, OpenCV, MediaPipe, PyAutoGUI

Description: Developed a real-time hand gesture recognition system using computer vision to control mouse functions such as cursor movement, clicking, scrolling, and quit commands.

Highlights:

- Implemented precise finger tracking for smooth cursor control.
- Designed pinch gesture detection for mouse clicks.
- Added thumbs-up gesture to prompt exit confirmation.
- Enabled scroll functionality via vertical finger movement.
- Ensured accuracy with noise filtering and gesture timing thresholds.

Zomato Clone Web Application

Tools: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB

Description: Built a full-stack web application mimicking Zomato's food ordering platform, featuring restaurant listings, dynamic menus, cart management, and order checkout.

Highlights:

•Developed responsive UI with HTML, CSS, and JavaScript.

•Implemented backend APIs using Node.js and Express.js for restaurant and order management.

•Integrated MongoDB for data storage and retrieval.

CERTIFICATIONS & TRAINING

- AWS cloud practitioner CLF-C02 2025
- Intel Unnati Summer Training Program - Intel
- Microsoft Azure Fundamentals - Microsoft
- Fundamentals of Machine Learning - Microsoft

SOFT SKILLS

- Problem solving
- Team Work
- Adaptability

INTERESTS

- Artificial Intelligence & Machine Learning
- Data Science & Predictive Analytics
- Computer Vision & Image Processing
- Cloud Computing