Ambady S

Web Developer | Robotics Enthusiast

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in LinkedIn Profile

Summary

Skilled engineer with expertise in **web development**, **machine learning**, **robotics**, and **IoT**. Proficient in **Python**, **C++**, **JavaScript**, **ReactJS**, **TensorFlow**, **PyTorch**, and **OpenCV**. Experienced in **gesture recognition**, **web-based control systems**, and applying **Robotics** and **AI** to solve real-world problems.

Skills

- **Programming Languages**: Python, C++, JavaScript, HTML

- **Frameworks, Libraries, and Tools**: ReactJS, TensorFlow, PyTorch, Node.js, MongoDB, MySQL

- **Embedded Systems and Robotics**: Arduino programming, sensor integration, ROS, robotic arm programming, path planning, SLAM, kinematics, dynamics, gesture control

- **Machine Learning and AI**: Model training, deployment, optimization, sentiment analysis

- **Design Tools**: CAD, PCB design

- **Other Skills**: Problem solving, teamwork, communication, Video editing, Cinematography

Experience

- **Frontend Developer (ReactJS)** *May 2024 – Present*
MERN Stack Training Full Stack Academy, Kochi
Developed responsive web applications with ReactJS, improving performance by 30% and collaborating on e-commerce sites, enhancing user engagement by 15%.

- **IoT Systems Developer** *Jan 2024 – Feb 2024*
IoT and Robotics Technobyte, IIT Madras
Developed IoT solutions for real-time automation, improving efficiency by 25%, and enhanced sensor integration for improved accuracy by 20%.

- **AI Intern** *Mar 2023 – May 2023*
Machine Learning and NLP Solutions Teachnook
Developed sentiment analysis models with 90% accuracy, automating workflows and reducing manual workload by 50%.

Projects

- **Autonomous Vacuum Cleaner Robot** *Jul 2023*
Led a team to develop an Arduino-based robot for autonomous cleaning, featuring obstacle avoidance.

- **Recipe Website** *Jul 2024*
Developed a recipe website using HTML, CSS, and JavaScript for easy recipe exploration.

- **Robotic Manipulator with Gesture Control** *Jan 2025 - Apr 2025*
Built a 4-DOF robotic arm with gesture recognition using OpenCV and web-based slider control for remote pick-and-place operations.

Education

- **B.Tech in Robotics and Artificial Intelligence** *Aug 2022 – Present*
Rajiv Gandhi Institute of Technology, Kottayam