Pradyush Mohapatra

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Profile Summary

A dedicated Computer Science Engineer with a strong foundation in software development, IoT integration, and robotics. Proficient in Python, Java, and JavaScript, with experience in developing scalable web applications and innovative IoT solutions. Adept at implementing machine learning models, integrating hardware systems, and optimizing code for performance. Known for fast learning, adaptability to emerging technologies, and effective collaboration in team environments.

Education

B.Tech in Computer Science and Engineering — 7.56 cgpa   (2022 - 2026)Pursuing
ITER, SOA University

12th Grade (CHSE) — 78%   (2022)
Elisa College, Cuttack

10th Grade (BSE) — 70%   (2020)
SSVM, Rahama

Technical Skills

- **Programming Languages:** Java, Python, C++, HTML, CSS, JavaScript
- **Frameworks & Tools:** OpenCV, Arduino, Raspberry Pi
- **Domains:** Machine Learning, Internet of Things (IoT)/Robotics, Embedded Systems, Computer Vision

Work Experience

OCAC   (1 month)
- Developed a website prototype through comprehensive mind mapping.
- Built interactive UI using HTML, CSS, and JavaScript.
- Learned and integrated backend functionalities using Java.
- Strengthened teamwork and problem-solving skills.

Project Experience

AI Sign Language Translator
- Trained a deep learning model for ASL gesture classification.
- Utilized OpenCV and MediaPipe for hand tracking and gesture capture.
- Integrated Raspberry Pi for real-time recognition and audio output with pyttsx3.
- Designed the system for low-cost accessibility and edge deployment.

Automated Pet Feeder
- Made an IoT-based pet feeding system with Raspberry Pi.
- Utilized Raspberry Pi, Python, and IoT components for real-time control.
- Implemented sensor-based food dispensing with mobile app integration for remote operation.

Smart Home System
- Built an IoT-enabled automation system for smart home applications.
- Used ESP32, display, IoT sensors, C++, HTTP protocol for real-time device communication.
- Created an HTML, CSS, and JavaScript-based website to control appliances remotely.

Workshops Attended

- **SOA Fab Lab Karkhana Workshop** – Gained hands-on experience in prototyping, hardware integration, and innovative engineering solutions using IoT and robotics concepts.