

SHRIPAD BALANG

B.TECH | INDUSTRIAL INTERNET OF THINGS

AI • SOFTWARE DEVELOPMENT

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github.com/shripadbalang

SKILLS

Programming
Python, C, C++, React, HTML, CSS

AI & Backend
TensorFlow, YOLO, OCR, FastAPI, Flask, Supabase

IoT & Systems
ESP32, ESP32-CAM, sensors, embedded systems, DSA

EDUCATION

B.Tech — Industrial IoT
2023–2027 | 63.75%
Prof. Ram Meghe Institute of Technology and Research

Higher Secondary (HSC)
2020–2022 | 81.67%
Yashwantrao Chavan Sainik School, Supkhela, Washim

CERTIFICATIONS

Introduction to MCP
Anthropic • 2026
View Certificate

GenAI Study Jams
GDSC PRMITR • 2024
View Certificate

Introduction to Cybersecurity
Cisco • 2024
View Certificate

PROFILE

B.Tech Industrial Internet of Things student with practical experience building AI, IoT, and web applications. Skilled in Python, embedded hardware, and backend development. Seeking an internship or entry-level software engineering role.

PROJECTS

Traffic Violation Detection and E-Challan Management System

MAJOR PROJECT | 2026

- Developed an AI system to detect traffic violations from camera images and video.
- Identifies helmet violations, triple riding, and wrong-side driving, and reads number plates using OCR.
- Supports e-challan generation and allows vehicle owners to view their challans and evidence.

TECH Python, FastAPI, YOLO, OCR, React, Supabase

AI-Powered Smart Waste Classification System

IIoT PROJECT | 2025

- Built an IoT system to classify dry, wet, plastic, and metal waste using Python and TensorFlow.
- Integrated ESP32-CAM, ESP32, IR sensors, stepper/servo motors, buzzers, and a Flask backend.
- Used majority voting and chunk-based HTTP requests to improve classification stability.

TECH Python, TensorFlow, Flask, ESP32, ESP32-CAM

STRENGTHS

Problem solving • Teamwork • IoT prototyping • Backend development