

Harshwardhan Bhaskar

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LeetCode: leetcode.com/u/HarshwardhanBhaskar/

Education

Birla Institute of Technology Mesra, Ranchi

2023 – 2027

B.Tech in Computer Science Engineering

Experience

Industrial Trainee – Software & Automation

May 2025 – June 2025

Jindal Steel and Power Limited (JSPL), Patratu

- Developed a **real-time AI-based employee monitoring system** processing live video at 25–30 FPS
- Integrated **Twilio SMS alerts** for intruder detection within 5 seconds, reducing duplicate alerts by 90%
- Implemented **VGG-Face embeddings with cosine similarity** to improve recognition accuracy
- Built automated entry/exit logging system with timestamp tracking for industrial monitoring
- Analyzed production data and generated performance reports to identify operational trends and improve system efficiency
- Processed and evaluated detection logs to reduce false positives and enhance reliability of real-time alert systems

Projects

NeuroDocs — AI-Powered Document Intelligence SaaS

Next.js, FastAPI, Supabase, Google Gemini API

[Live](#) — [GitHub](#)

- Architected and deployed a **full-stack SaaS platform** for automated document classification, extraction, and summarization
- Integrated **Google Gemini API**, reducing backend memory usage by **over 95%** while improving accuracy
- Engineered **hybrid AI pipeline** combining rule-based logic with LLM fallback for improved reliability
- Designed secure database schema using **Supabase (PostgreSQL)** with **JWT authentication and Row Level Security (RLS)**
- Developed responsive UI with dashboard, real-time usage tracking, and document workflows
- Built **CI/CD pipelines** using GitHub, Cloudflare Pages, and Render for zero-downtime deployment

Kirmada — Real-Time Gaming Platform

[Live](#)

- Developed a full-stack **real-time gaming platform** with multiplayer interactions and secure wallet system
- Implemented **provably fair game logic** using server-side validation and cryptographic hashing
- Built backend using **Supabase (PostgreSQL, Realtime, Edge Functions)** for authentication and live synchronization
- Designed **atomic transaction system** for secure balance updates and betting operations
- Integrated frontend using **React, TypeScript, Tailwind, and Framer Motion**

AI Employee Monitoring & Intruder Detection System

- Built real-time **face recognition system** using OpenCV, MediaPipe, and DeepFace
- Achieved **25–30 FPS** live processing with accurate identity tracking
- Integrated automated alert system and logging dashboard for monitoring entries/exits

Technical Skills

Languages: C++, Python, SQL

Frontend: Next.js, React, HTML, CSS

Backend: FastAPI, REST APIs

Databases: PostgreSQL, MySQL, Supabase

AI/ML: OpenCV, DeepFace, MediaPipe, Google Gemini API

Tools: Git, GitHub, Linux, Docker, CI/CD, Twilio API

Achievements & Activities

- Solved 200+ DSA problems on [LeetCode](#)
- DISHA Chapter Lead – Drishti NGO; organized outreach programs, coordinated volunteer activities
- NSS Volunteer (2 years) at BIT Mesra; participated in community service drives, awareness campaigns