

Omkar Gadekar

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Education

B.Tech S.Y Zeal College of Engineering and Research, Pune, Computer Engineering Pune, India
 • **CGPA:** 9.5 / 10 Aug 2024 – 2028
 • **Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Software Engineering, Computer Networks

Experience

Primathink Technologies Pvt. Ltd., Software Engineering Intern (Web Development) Dec 2025 – Jan 2026
 • Worked on client-oriented web development tasks involving frontend and backend logic 2 months
 • Implemented feature-level changes and UI components based on project requirements
 • Debugged existing codebases and followed structured version control workflows
 • Gained exposure to real-world development practices and collaborative engineering

Qualitas Global Services, AI Data Operations Intern Kalyani Nagar, Pune
 • Worked on large-scale computer vision datasets involving image annotation and validation June 2025 – July 2025
 • Assisted in Python-based dataset inspection and preprocessing workflows 2 months
 • Followed defined processes to ensure labeling consistency and data quality
 • Supported data pipelines used for ML model training

Om Engineering Works Pvt Ltd, CNC Machine Operator/Programmer Kharadi, Pune
 • Learned G-code and M-code programming for CNC operations May 2024 – Aug 2024
 • Operated 3-axis CNC machine (DMG Mori model with Siemens Sinumerik control) 4 months
 • Gained hands-on experience in precision manufacturing and machine programming

Projects

* **NeuralRail – Intelligent Train Traffic Simulation and Decision System*** | <https://github.com/HoneyBadger-010/NeuralRail.git>

- **Smart India Hackathon – National Finalist** | Python, Android (Kotlin), Algorithmic Logic
- Designed an intelligent system combining railway traffic simulation with decision logic
- Modeled train scheduling, congestion handling, and conflict resolution scenarios
- Implemented algorithmic rules to improve section throughput and operational efficiency
- Built an Android application to monitor and optimize non-traction power usage

* **Sankhya: Numbers To Decision*** | <https://github.com/HoneyBadger-010/SANKHYANUMBERS-TO-DECISION.git>

- A next-generation predictive analytics dashboard for UIDAI's Aadhaar ecosystem, analyzing 5M+ records to forecast demand, identify stressed districts, and optimize resource allocation
- **Use Case:** Detects unusual cross-border migration patterns that may indicate: mass migration events, data anomalies, potential fraud patterns, and system issues
- Interactive map visualization for data insights

Screen Time & Parental Control Application | [https://github.com/](https://github.com/HoneyBadger-010/Digibalance.git)

HoneyBadger-010/ Digibalance.git

- Android (Kotlin)
- Built an Android application implementing strict parental control mechanisms
- Designed a focus mode resistant to common bypass attempts
- Implemented application usage restriction and enforcement logic
- Emphasized reliability and system-level control behavior

PDF Quiz Generator

- Python, FastAPI, REST APIs
- Built a backend service to extract content from PDFs and generate quizzes
- Designed REST APIs for document parsing and question generation
- Structured backend logic for modularity and testability

Virtual Environment Detection Module

- Android, System Properties
- Implemented checks to detect execution in virtualized or emulated environments
- Analyzed system properties and runtime indicators for environment verification
- Explored security-focused use cases such as proctoring systems

GFX Utility Tool

- Android (Kotlin)
- Developed a lightweight Android utility for graphics-related configuration
- Worked with Android UI components and device-level settings
- Gained hands-on experience with Android application architecture

Skills

Programming Languages: C++, Python, JavaScript, Kotlin

Problem Solving: Data Structures and Algorithms

Web Development: HTML, CSS, JavaScript, React (basic), FastAPI (basic)

Systems & Tools: Linux, Git, JADX, APKTool

Achievements

Smart India Hackathon – National Finalist (Team Lead)

SAE India AWIM – National Winner

Google Developer Group's Pune X Mumbai Buildathon – Top 80 teams (Round 1 Qualifier)

Selected among Top 200 participants in Paradox 2.0 National Hackathon

Intercollege Code Cooking Winner (PDF Quiz Generator)

Competitive Programming (DSA-focused)