

RAHUL DILEEP TAKALE

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[Portfolio-web](#) Pune, Maharashtra, India

Education

MIT Art Design & Technology University

Aug 2023 – May 2027

Bachelor of Technology - Computer Science and Engineering

Pune, Maharashtra

- CGPA: 8.43/10 — Relevant Coursework: Data Structures, Algorithms, Database Systems, Cs Fundamentals.

Experience

Innobytes – Erfinden Technologies Pvt. Ltd.

June 2025 – Nov 2025

Development Intern

Pune, Maharashtra

- Developed responsive web interfaces using HTML, CSS, JavaScript, and Bootstrap, ensuring cross-device compatibility and improved user experience.
- Assisted in implementing frontend modules and integrating application components for BizGrowth and InnoHubs web projects.
- Utilized Git/GitHub for version control, bug fixing, testing, and collaborative development workflows.

Red Crest Charitable Trust

June 2025 – July 2025

Technical Intern

Pune, Maharashtra

- Assisted in the development and testing of a Low-Cost IoT Monitoring Device for smart agriculture applications using sensor-based monitoring systems.
- Analyzed and interpreted sensor-generated environmental data to track agricultural conditions and support data-driven monitoring.

Projects

AI based CCTV Surveillance System for Maha Kumbh Mela

Python, OpenCV, YOLO, Flask, Web Dev(Dashboard)

- Designed an AI-powered crowd surveillance system using YOLOv8-based object detection and multi-object tracking techniques for large-scale public events.
- Implemented real-time people counting, crowd density estimation, and zone-based intrusion detection using computer vision pipelines.
- Processed CCTV video streams to extract movement patterns and generate event-driven alerts for abnormal crowd accumulation.

Smart Campus Complaint Management System

Java, Spring Boot, MySQL, JWT Authentication, REST APIs, Maven

- Developed a role-based complaint management system enabling students to register, track, and manage campus-related issues.
- Integrated secure RESTful APIs using Spring Boot with JWT-based authentication and role-based access control for complaint management, status tracking, and user operations.
- Performed API testing using Postman and implemented exception handling to improve system reliability.

Intelligent Fitness Posture Detection System

Python, OpenCV, MediaPipe Pose, NumPy, Real-Time Video Processing

- Developed a real-time posture assessment system using MediaPipe Pose's 33-point skeletal landmark model for human pose estimation.
- Implemented joint-angle calculation algorithms for exercise form validation, movement tracking, and repetition counting.

Technical Skills

Languages: Java, Python, C++, HTML/CSS, Javascript.

Frameworks: Spring Boot, React.js, Node.js, Express.js, Tailwind CSS.

Databases/Tools: MySQL, MongoDB, Firebase, Github. Postman.

AI/ML: Machine Learning, Deep Learning, Computer Vision, Gen(AI).

Achievements

- Stood in Top-5 from 1004 Teams in Indradhanu International Grand Challenge 2026 organized by PCCOE.
- Achieved the Premium Plus Milestone in the Google Cloud Arcade Facilitator Program 2024.