

Manish Ravi Chimankar

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SUMMARY

Detailed-oriented Python developer with expertise in data analytics, automation, and IoT systems, delivering scalable and intelligent solutions. Strong command over Python and cloud technologies with a sharp focus on real-time performance and usability.

EDUCATION

G. H. Raisoni College of Engineering,

Nagpur, India

B.Tech in Computer Science and Engineering (IoT) | CGPA: 7.83/10

2023 – 2026

Relevant Coursework: IoT, AI & ML, Data Science, Cloud Computing, OS, DBMS, DSA

Nagpur Institute of Technology

Nagpur, India

Diploma in Computer Science | Percentage: 78%

2021 – 2023

SKILLS

Technical: Python, Java, R Programming, HTML, CSS, JavaScript, SQL

Tools: Git, Firebase, ESP32, Arduino, VS Code, Excel

Soft Skills: Problem Solving, Team Leadership, Time Management, Research

EXPERIENCE

AI-IoT Hackathon Prototype | Team Lead | Aug 2024

Led a team to build an AI-powered IoT system under timed constraints.

Focused on real-world problem solving, hardware-software integration, and demo delivery.

PROJECTS

Auto-class: Smart Attendance & Automation System

Jan 2025

Hardware: ESP8266 Node-MCU, Relay, Servo, Webcam | **Tech:** Python, OpenCV, CNN, Flask, SQLite, IoT

- Developed a real-time face recognition-based attendance system using CNN and OpenCV, achieving 94% accuracy under classroom conditions.
- Built an IoT-controlled automation module using ESP8266 to operate classroom lights, fans, and camera positioning.
- Designed a Flask-based web dashboard enabling live attendance tracking, analytics, and centralized device control.
- Integrated a secure SQLite database with real-time logging, reducing attendance marking time by 85%.

Air Quality Monitoring System

Jan 2025

Hardware: MQ135, PM2.5, CO2 Sensors | **Platform:** ESP32, Firebase | **Tech:** IoT, Embedded C, Python

- Developed a real-time air quality monitoring system to measure pollutants and detect hazardous levels in the environment.
- Integrated alarm-based alerts for firecracker pollution to ensure public safety during festive seasons.
- Enabled multi-level pollution detection with sensor fusion and live cloud-based data logging.

CERTIFICATIONS

- Certificate of Programming in Python by skill India –
- RDBMS PostgreSQL Training by IIT BOMBAY –

Jan 2025

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