

# PRATHMESH PRAKASH TATAR

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## PROFESSIONAL SUMMARY

Motivated Computer Engineering student skilled in Full-Stack Web-Development, Data Structures & Algorithms and Software Engineering. Proficient in HTML, CSS, JavaScript, C, C++, Java, Python, and MySQL, with strong Git/GitHub workflow. Experienced in developing real-world solutions such as a Drowsiness Detection System (Raspberry Pi), Calibration & Testing Automation Framework For Energy Meters, EV Charging Station Finder, and Diabetes Prediction App. Passionate about innovation, automation, and building scalable software solutions as software engineer.

## TECHNICAL SUMMARY

- Frontend: HTML5, CSS3, JavaScript
- Backend: Java (Servlets), Python (Flask), JDBC, REST APIs
- Database: MySQL
- Tools & Platforms: Git, GitHub, VS Code, Streamlit
- Concepts: OOP, MVC Architecture, DSA, Socket Programming, Automation Systems

## PROFESSIONAL EXPERIENCE

Calibration & Testing Automation Developer – Python, Automation & Embedded Systems  
Rishabh Instruments Ltd. | Industrial Automation Division | Aug 2025 – Oct 2025 | On-site.

- Engineered a scalable Python automation framework for real-time calibration and testing of 1U, 2U, 4U, and ANSI energy meters, replacing legacy manual workflows.
- Built a multi-threaded Modbus TCP/IP communication system with dual-port socket control, enabling simultaneous calibration of up to 20 meters.
- Developed an intuitive Tkinter-based operator interface integrated with live status monitoring, automated data logging, and validation modules.
- Enhanced system reliability and throughput through optimized data exchange, CRC verification, and fault-tolerant retry mechanisms.
- Delivered a 70% reduction in manual testing effort and significantly improved calibration speed, precision, and process repeatability across production lines.

Python Developer Intern – Python

Codec Technologies Pvt. Ltd. | AICTE & ICAC Approved | Jul 2025 – Aug 2025 | Remote

- Completed a 1-month Python Development internship.
- Developed and optimized modules for live projects.
- Improved debugging, problem-solving, and coding efficiency.
- Earned a Letter of Recommendation for exceptional performance.

Web Application Development Intern – Java

LxGio India Pvt Ltd · Internship | Jun 2023 – Jul 2023 | On-site

- Developed dynamic web applications using core Java and servlets
- Implemented backend logic, form handling, and database integration with MySQL
- Gained experience in MVC architecture and Java-based web frameworks
- Strengthened full-stack understanding and participated in real-world deployment processes

## PROJECTS

- Diabetes Prediction App | Python, Streamlit – ML app for diabetes prediction using Pima dataset with real-time UI.
- Drowsiness Detection System | Python, OpenCV, Raspberry Pi – Eye tracking-based system to detect driver fatigue.
- EV Charging Station Finder | HTML, CSS, JS, Java, MySQL – Map-based web app for finding nearby EV stations.
- Calibration Automation Framework for Multi-Utility Energy Meters | Python, Modbus TCP/IP, Tkinter, Socket Programming – Automated multi-meter calibration & testing system for industrial testing.
- Resume Analyzer (AI-Powered) | Flask, Gemini API, HTML/CSS/JS – Developed an AI-based resume analysis system using Python Flask backend integrated with Gemini API to evaluate resumes for skills, keywords, and formatting.

## EDUCATION

B.E. in Computer Engineering – GES's R. H. Sapat College of Engineering, Nashik  
June 2024 – July 2027

- Participated in AI/ML Workshop by IIT Hyderabad
- Completed Deloitte Virtual Internship
- Involved in DSA projects, tech innovation contests, and workshops
- Core subjects: DSA, OOP, OS, DBMS, CN, Web Development, Software Engineering

Diploma in Computer Engineering – NDMVPS'S Rajarshi Shahu Maharaj Polytechnic, Nashik  
October 2021 – June 2024

- Built mini-projects in C/C++, OS, DBMS, CN, and Web basics
- Developed strong programming fundamentals and software skills
- Foundation for transition into full-time engineering degree

## CERTIFICATIONS & PUBLICATIONS

- Artificial Intelligence & Machine Learning – Workshop (IIT Hyderabad), Jun 2025 | Credential ID: W21-478
- Technology Job Simulation – Deloitte Virtual Internship, Jun 2025 | Credential ID: B7Rr5Qm8eMRPHmTN4
- Programming in C (AICPE, Grade: A+, 96%), Mar 2022 | Credential ID: 22K71611726591241
- MS-CIT (Score: 99/100), Nov 2021 | Credential ID: 21/5179956
- Research Publication – Drowsiness Detection System using EAR (IJSREM, Vol. 08, Issue 07), Jul 2024 | Impact Factor: 8.448 | Link: <https://ijsrem.com/download/drowsiness-detection-system-using-eye-aspect-ratio-technique/>