

RUTIKA KARALE

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Full Stack Development | Data Analytics | Data Visualization Python | SQL

PROFESSIONAL SUMMARY

A passionate learner with a strong foundation in electronics and full stack development. Skilled in programming (C, C++, Python, Java) and web technologies (React, Node.js), with exposure to IoT concepts and cloud-based solutions. Known for problem-solving abilities, teamwork, and a never-give-up attitude toward achieving excellence

EXPERIENCE

Uni-Tech Automation Pvt. Ltd. (Aug 2022 - Sep 2022)

- Completed internship training in industrial automation and basic introduction to PLC systems.
- Gained hands-on experience on automation tools and control panel designing for industrial projects.
- Developed understanding of industrial protocols and system integration for process automation.

Pantech Prolabs India Pvt. Ltd. (Dec 2024 – Mar 2025)

- Completed training in full stack web development using HTML, CSS, JavaScript, Node.js, Express, and MongoDB.
- Built sample projects like responsive landing pages and basic REST APIs integrating frontend and backend.

CERTIFICATIONS

- C
- Java
- Web Designing

EDUCATION

- B.E E&TC** : Marathwada Mitra Mandal's College of Engineering, Pune 2023 -2026
CGPA: 7.45
- Diploma E&TC** : Government Polytechnic Pune 2021 -2023
Percentage : 83 %
- SSC** : MKSSS Mahilashram High School Karvenagar 2017-2020
Percentage : 88.80%

PROJECTS

Enhanced ATM Security Using Computer Vision (Aug 2025)

Python, OpenCV, IoT, Node.js

- Built a vision-based ATM security system detecting face coverings and multiple entries with 93% accuracy.
- Automated real-time alerts and ATM lockdown, reducing potential breaches by 60%.
- Integrated IoT modules for instant door control and alarm activation within 2 seconds

UNICONN (Nov 2024 - May 2025)

Next.js, MongoDB, Node.js, RESTful APIs, React

- Developed a scalable university-exclusive social networking platform to enhance campus connectivity.
- Increased user onboarding by 35% and data speed by 48% through backend optimization and database indexing.
- Implemented monetization features such as freemium plans, campus ads, and brand partnerships for 5M+ students.
- Designed responsive, user-friendly UI/UX for seamless multi-device accessibility.

Arduino Based CNC Laser Engraver – (Dec 2022 – May 2023)

Tech: Arduino Uno, CNC Shield V3, A4988 Drivers, GRBL

- Built a 2-axis CNC laser engraver for precise engraving on wood, acrylic, and plastic.
- Optimized GRBL firmware and G-code workflow, improving engraving accuracy by 35% and cutting costs by 40%.
- Designed a compact, low-cost frame enabling quick prototyping for small industries and educational use.

TECHNICAL SKILLS

- Languages: C, C++, Java, Python, JavaScript,HTML,CSS
- Libraries & Frameworks: NumPy, Pandas, Matplotlib, React
- Flask Databases: SQL, MongoDB
- Tools: GitHub, VS Code, MongoDB Compass
- Soft Skills: Leadership, Team Collaboration, Problem Solving, Documentation