

RIDDHI PATIL

Saphale, Palghar

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Education

Veermata Jijabai Technology Institute <i>Master's in Computer Engineering Specialization in Software</i>	Aug 2023 – July 2025 <i>Mumbai</i>
St. John College of Engineering and Management <i>Bachelor of Engineering in Computer Engineering</i>	July 2020 – May 2023 <i>Palghar</i>
Shri Bhagubhai Maftlal Polytechnic <i>Diploma in Computer Engineering</i>	July 2017 – May 2020 <i>Mumbai</i>

Experience/Internships

VJTI <i>Adhoc Faculty</i>	March 2026 – Present <i>Mumbai</i>
Baker Hughes <i>Software Developer Intern</i> - Migrated RESTful services from Spring Boot to Node.js using Express.js, TypeScript, and PostgreSQL. Implemented TypeORM models with SOLID principles and Clean Architecture using Inversify for dependency injection. - Built robust validation and centralized error handling with express-validator and custom middleware. Ensured code quality with Jest, SonarScanner, Docker, and CI/CD pipelines for automated testing and deployment.	November 2024 – October 2025 <i>Mumbai</i>
Prisma AI Corporation Pte. Ltd. <i>Cpp Developer</i> - Hands-on experience with IoT projects, Worked on projects focused on facial recognition and detection, as well as object recognition and detection, utilizing my skills in both Cpp and Python. - Learned and applied my knowledge in Cpp to build dynamic link libraries (DLLs), showcasing my interest in both programming languages.	June 2023 – August 2023 <i>Mumbai</i>

Projects

A Hybrid Machine Learning Model for Landslide Susceptibility Mapping Integrating Python Geospatial, Meteorological, and Geological Data Developed a hybrid machine learning framework integrating Random Forest, XGBoost, and ensemble modeling for landslide susceptibility mapping in Maharashtra using geospatial, meteorological, and geological data.	July 2025
A Rescue and Surveillance Robot for Coal Mine Using IOT Raspberry Pi, Night Vision Camera Features a night vision camera and a Raspberry Pi mounted on the vehicle, enabling Wi-Fi connectivity for command control and live streaming to a monitor via a webpage, with adjustable camera angles for comprehensive footage capture.	April 2023
Chatbot for Educational Institute Using Python Python, NLP, Web Technologies Developed with HTML, CSS, JavaScript. Uses Python and NLP techniques for data processing and neural network-based response generation. Speech Recognition: Integrates Python's "Speech recognition" and GTTS for converting speech to text and vice versa.	April 2022

Publications

A Rescue and Surveillance Robot for Coal Mines Using Internet of Things <i>Volume 13, Issue 4</i>	April 2023 <i>JEITSM</i>
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Technical Skills

Programming Languages: C/C++, Python, Java, TypeScript
Web Technologies: HTML, CSS, JavaScript, Node.js
Database: MySQL
Development Tools: Visual Studio, VS Code, Netbeans IDE, IntelliJ, Arduino IDE, Jest