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## Technical Skills

- Programming Languages: Python, JavaScript, Java, MATLAB
- Web Development: React.js, Node.js, Django, MongoDB, HTML, CSS
- Tools & Platforms: Git, GitHub, Linux

**Courses:** The Complete 2024 Web Development Bootcamp (Udemy ,2024), The Bits and Bytes of Computer Networking (Cousera,2023)

## Education

Board	Tenure	Educational institution
B. Tech (CSE)	Sep 2026 – Ongoing	Vellore Institute of Technology, Bhopal
Class XII	May 2022	Noel School, Akola
Class X	May 2020	Noel School, Akola

## Projects

Be My vision	<p>▣ <b>Machine learning project (Sept 2024- March 2025)</b></p> <p><b>Description:</b> Built an AI-powered assistive system that helps visually impaired users navigate safely using real-time object detection, depth estimation, and voice-based scene understanding.</p> <ul style="list-style-type: none"><li>• Developed a smart navigation system for visually impaired individuals using YOLO (object detection), MiDas (depth estimation), and OpenCV for real-time scene analysis and obstacle awareness.</li><li>• Integrated BLIP and Gemini API for advanced scene description, and implemented Text-to-Speech (pyttsx3, Google Voice) to provide real-time audio feedback for safe and independent navigation.</li><li>• Combined computer vision and language models to deliver a fully voice-guided, user-friendly assistive tool for enhanced mobility and situational awareness.</li></ul> <p><b>Technologies Used:</b> OpenCV, YOLO, MiDas, BLIP, Gemini API, Pyttsx3, Google Voice (Text-to-Speech)</p>
Web Development	<p><b>Book Store Website</b></p> <ul style="list-style-type: none"><li>• <b>Developed a full-stack web application</b> for a book store with a <b>database of 10,000+ species-related books</b> using <b>React, Node.js, and MongoDB</b>.</li><li>• Implemented <b>search and filtering functionality</b> to improve user experience, reducing search time by <b>30%</b>.</li><li>• Designed an <b>interactive UI with React.js</b> and optimized <b>API response time by 20%</b> using backend caching techniques.</li><li>• Integrated <b>Django-based data analytics</b> for tracking user preferences and generating insights.</li></ul> <p>- <b>Technologies Used:</b> Node.js, JavaScript, Django, React, MongoDB,</p>
Mechine Learning	<p><b>Criminal Recognition System (Feb 2024 - May 2024)</b></p> <ul style="list-style-type: none"><li>• Designed and developed a face recognition system using machine learning.</li><li>• Implemented React and Python to identify criminals from a database of 10,000+ images.</li><li>• Improved accuracy by 15% using YOLO &amp; OpenCV.</li></ul> <p>-Link: <a href="https://github.com/Criminal_Recognition_System">https://github.com/Criminal_Recognition_System</a></p>

Extracurricular Activities	
Responsibilities	<b>Leadership &amp; Clubs</b> <ul style="list-style-type: none"> <li>• <b>Core Member of Android Club, VIT Bhopal</b> – Organized <b>3+ workshops</b> on Android app development.</li> <li>• <b>Lead of Marathi Club, VIT Bhopal</b> – Managed and coordinated cultural events with <b>100+ participants</b>.</li> </ul>
Extracurricular	<ul style="list-style-type: none"> <li>▢ Achieved a B grade in both elementary and intermediate drawing competitions, demonstrating consistent artistic skill and commitment over two consecutive years while competing against 150+ participants in each event.</li> </ul>
ADDITIONAL INFORMATION	
Hobbies	<ul style="list-style-type: none"> <li>▢ Photography, Videography, Video Editing</li> <li>▢ Sports: Cricket</li> <li>▢ Research: Space</li> </ul>
Languages	<ul style="list-style-type: none"> <li>▢ English, Hindi, Marathi</li> </ul>