

# JAHNVI SAXENA

Software Developer | Full Stack Developer | Machine Learning Engineer  
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## Education

<b>Vellore Institute of Technology, Bhopal</b> <i>Bachelor of Technology in Computer Science and Engineering   CGPA: 8.31/10</i>	<b>Oct. 2022 – May 2026</b> <i>Bhopal, India</i>
<b>Kendriya Vidyalaya, Indore</b> <i>Higher Secondary Education (Class XII)   Percentage: 89.6%</i>	<b>Apr. 2020 – Apr. 2022</b> <i>Indore, India</i>
<b>Kendriya Vidyalaya Steel Plant, Visakhapatnam</b> <i>Secondary Education (Class X)   Percentage: 89.4%</i>	<b>Apr. 2019 – Apr. 2021</b> <i>Visakhapatnam, India</i>

## Technical Skills

**Programming Languages:** Python, JavaScript, Java, HTML5, CSS3, SQL, C++  
**Frontend Technologies:** React.js, HTML5, CSS3, JavaScript ES6, Bootstrap, Responsive Web Design  
**Backend Technologies:** Node.js, Express.js, Flask, RESTful APIs, Microservices Architecture  
**Databases:** MongoDB, MySQL, PostgreSQL, Database Design, Query Optimization  
**Machine Learning & AI:** TensorFlow, Scikit-learn, Pandas, NumPy, Natural Language Processing, Deep Learning  
**Tools & Technologies:** Git/GitHub, Docker, AWS, Postman, Agile Methodology, SDLC, Version Control

## Technical Projects

<b>CodeGuard AI</b>   <i>Python, Machine Learning, Flask, React.js</i>	<b>GitHub</b>
<ul style="list-style-type: none"><li>Engineered AI-powered vulnerability detection system using machine learning algorithms for automated security scanning across 5+ programming languages, achieving 92% accuracy in threat identification</li><li>Built intelligent code review automation with natural language processing capabilities to identify 150+ security flaws and code quality issues, reducing manual review time by 65%</li><li>Deployed automated fix suggestions and vulnerability prioritization dashboard with real-time analytics, processing 500+ code files per hour for development teams</li></ul>	
<b>IntelliStock - AI-Powered Inventory Tracker</b>   <i>MERN Stack, Python, Machine Learning, Socket.IO</i>	<b>GitHub</b>
<ul style="list-style-type: none"><li>Architected intelligent inventory management platform using MERN stack with integrated Python ML services, supporting real-time inventory tracking, predictive analytics, and automated alerts for 1000+ products across multiple organizations</li><li>Implemented advanced ML algorithms for demand forecasting, stock optimization, and expiry prediction using Python APIs, achieving 89% accuracy in stock level predictions and reducing waste by 35% through intelligent expiry date monitoring</li><li>Developed comprehensive authentication system with Google OAuth 2.0, JWT tokens, and role-based access control (RBAC) supporting 4 user roles, session management with MongoDB store, and secure API endpoints with Passport.js middleware</li></ul>	
<b>SereNova - Mental Health Chatbot</b>   <i>Python, NLP, Sentiment Analysis, TensorFlow</i>	<b>GitHub</b>
<ul style="list-style-type: none"><li>Created AI-driven mental health support platform incorporating cognitive behavioral therapy techniques and real-time sentiment analysis, achieving 87% accuracy in emotion detection across 2000+ user interactions</li><li>Executed natural language understanding system processing 50+ conversations daily with 24/7 availability, featuring conversational interface and crisis detection mechanisms with 3-second response time</li></ul>	

## Achievements & Certifications

<b>Competitive Programming</b> <i>LeetCode Contest Rating: 1,492   Solved 200+ Data Structure and Algorithm Problems</i>	<b>2024</b>
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## Additional Information

**Languages:** English (Fluent), Hindi (Native)  
**Interests:** Open Source Contribution, Hackathons, Competitive Programming, Technology Innovation