SANDEEP RATHOD B

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EDUCATION

SWAMI VIVEKANANDA INSTITUTE OF TECHNOLOGY   Secuendrabad, IN
Bachelor of Engineering   Expected May 2026
       Major in Computer Science; Specialization in Artificial Intelligence & Data Science
       Cumulative GPA: 7.27/10.0; University List 2024-2025
       Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

JAWAHAR NAVODAYA VIDYALAYA - CBSE   Khammam, IN
Higher Secondary Education (Grade 12)   Jul 2021 - Jul 2022
       Specialization in MCP;
Cumulative GPA: 6.88/10.0; Board List 2021-2022

WORK EXPERIENCE

OPENAI ACADEMY X NXT WAVE. (2 days buildathon of 2 members in team)   Hyderabad, IN
State Level Buildathon   2025
- **Designed and built a state-level citizen reporting and issue-tracking platform** using an AI-integrated n8n workflow, streamlining how public service issues are reported and coordinated across multiple government departments.
- **Developed a fully automated pipeline** that generates unique issue IDs, sends confirmation emails to citizens, and dispatches detailed reports to the appropriate departments, improving transparency, responsiveness, and accountability.
- **Gained hands-on experience in project development and cross-functional collaboration**, strengthening understanding of industry workflows, project review processes, and emerging technologies through a fast-paced, 2-day buildathon (OpenAI Academy x NXT Wave).

COLLAGE MINI PROJECT. (A team of 4 members built a group project)   Hyderabad, IN
Software Engineer & Team lead   Jun 2016 – Sep 2016
- Developed **an automated security system with motion-triggered face recognition** using Python, OpenCV, NumPy and dlib; enabled real-time verification that granted or denied access and generated audit-ready log entries
- Engineered **a high-performance detection pipeline** achieving *100% motion-detection accuracy* and *82% face-recognition accuracy*, with fast real-time processing that minimized false triggers and improved overall system reliability
- **Built the entire solution end-to-end**, integrating recognition logic, permission handling, alert mechanisms, and logging; delivered a smarter and more efficient alternative to manual monitoring or continuous scanning.

PROJECTS

PERSONAL PORTFOLIO WEBSITE | Live   Dec 2025
- Designed and developed a responsive personal portfolio website to showcase projects, skills, and achievements using TypeScript, CSS, and JavaScript.
- Implemented interactive UI components, smooth animations, and optimized performance to enhance user experience across all devices.

AUTOMATED SECURITY SYSTEM | Live   Jan 2016
- Built a smart surveillance solution using **Python, OpenCV, motion detection, and face recognition** to trigger identification only when movement is detected, reducing unnecessary processing & monitoring efficiency.
- Awarded Engineered an **event-driven detection pipeline** that integrates motion triggers with facial recognition, optimizing performance and enabling scalable, automated security monitoring.

ACTIVITIES

NCC VOLUNTEER   Khammam, IN
Cadet Member   Jun 2020 – Present
- Actively participated in drills, community service, and event planning as an NCC volunteer, supporting organizational initiatives throughout the university and fostering discipline, leadership, and teamwork.

ADDITIONAL

Technical Skills: SQL, JavaScript, HTML/CSS; Proficient in MATLAB, Python
Languages: Fluent in Telugu, English; Conversational Proficiency in Hindi, Tamil