

SIDDHARTH SINGH

Prayagraj, Uttar Pradesh, India

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Education

Vellore Institute of Technology, Bhopal <i>B.Tech in Computer Science and Engineering</i>	2022 - 2026
	<i>CGPA: 8.3/10</i>
Saint John's Academy, Prayagraj <i>Intermediate (Class XII)</i>	2020 - 2021
	<i>96.5%</i>
Saint John's Academy, Prayagraj <i>High School (Class X)</i>	2018 - 2019
	<i>94.2%</i>

Experience

India Space Lab	Februuary 2026 -
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Winter Internship and Training Program

- Selected among 1045 candidates for competitive national space technology internship program.
- Training in Advanced Drone Technology, CanSat/CubeSat (Student Satellite), Rocketry, Remote Sensing (GIS), and Disaster Management.
- Will complete technology-focused project applying learned concepts in practical implementation.
- Participating in 30-day structured program to enhance space education and technical skills.

Projects

Employee Shift Manager App <i>MongoDB, Express.js, React.js, Node.js</i>	November 2024
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- Developed a full-stack web application for digital employee scheduling with a drag-and-drop calendar interface using ScheduleX and React 19.
- Built RESTful APIs using Express.js and MongoDB with role-based access and secure data handling.
- Implemented conflict detection and automated shift swaps to improve workforce productivity.

Real-Time Chat Application <i>MongoDB, Express.js, React.js, Node.js</i>	May 2025
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- Engineered a real-time chat platform supporting private and group messaging using Socket.io.
- Implemented JWT authentication and bcrypt encryption for secure login and authorization.
- Designed a responsive React.js interface for seamless real-time communication.

Yoga Pose Detection System <i>Python, OpenCV, MediaPipe, Flask</i>	September 2025
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- Developed a real-time yoga pose classification web application with live webcam input using OpenCV.
- Built an ensemble ML model using Decision Tree, KNN, and Random Forest via VotingClassifier.
- Extracted 33 body landmarks per frame using MediaPipe and displayed confidence scores in real time.
- Achieved sub-second prediction latency for instant visual feedback.

Technical Skills

Languages: Java, Python, C++, JavaScript, HTML/CSS, SQL

Developer Tools: Node.js, Express.js, React.js, MongoDB, PostgreSQL, jQuery, EJS

Technologies/Frameworks: MySQL, REST APIs, Git, GitHub, Excel

Leadership / Extracurricular

IoT Club, VIT	2022 - 2025
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<i>PR & Outreach Team Co-Lead</i>	<i>VIT Bhopal University</i>
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- Co-led the PR & Outreach team, planning and executing promotional strategies to increase event visibility and participation.
- Coordinated with internal teams and external stakeholders to manage communications, partnerships, and outreach campaigns.
- Led a team of members, delegating tasks, tracking progress, and ensuring timely execution of PR activities.

Certifications

Unity and C# Basics – META; OCI AI Foundations – Oracle; OCI Generative AI – Oracle; Cyber Physical Systems – NPTEL