Siddharth Singh

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EDUCATION

- **Vellore Institute of Technology** — 2022 – 2026(Exp.)
  B.Tech in Computer Science and Engineering — *CGPA: 8.27 / 10*

- **Saint John's Academy, Prayagraj** — 2020 – 2021
  Intermediate (Class XII) — *96.5%*

- **Saint John's Academy, Prayagraj** — 2018 – 2019
  High School (Class X) — *94.2%*

PROJECTS

- **Employee Shift Manager App** — *MongoDB, Express.js, React.js, Node.js (MERN), Tailwind CSS*
  - Developed full-stack web application for digital employee scheduling with drag-and-drop calendar interface using ScheduleX library and React 19 framework.
  - Built RESTful APIs using Express.js and MongoDB for efficient data handling, role-based access, and secure operations.
  - Created a responsive React.js frontend with Tailwind CSS, implementing conflict detection and automated shift swaps to boost productivity

- **Real-Time Chat Application** — *Node.js, Express.js, React.js, Socket.io, MongoDB, JWT, Tailwind CSS*
  - Engineered a real-time chat platform supporting private and group messaging using Socket.io for instant synchronization.
  - Implemented JWT authentication and bcrypt encryption for secure login, authorization, and data integrity.
  - Integrated RESTful APIs and a responsive React.js interface for seamless communication and consistent user experience.

- **Yoga Pose Detection System** — *Flask, Python, OpenCV, MediaPipe, scikit-learn (VotingClassifier), HTML/CSS, JavaScript*
  - Developed real-time yoga pose classification web application using Flask backend with live webcam integration via OpenCV.
  - Implemented ensemble machine learning model using VotingClassifier combining Decision Tree, K-Nearest Neighbors, and Random Forest algorithms for pose detection.
  - Utilized MediaPipe Pose library for extracting 33 body landmark coordinates per frame and displayed prediction confidence scores on live video feed
  - Integrated Flask backend with live webcam input, providing instant visual feedback with sub-second prediction latency.

TECHNICAL SKILLS

Languages: Java, Python, C++, Javascript, C#, HTML/CSS
Frameworks & Libraries: Node.js, Next.js, React.js, Flask, Phaser3, Bootstrap, .NET Core
Databases & Tools: MySQL, MySQL Server, REST APIs, Docker, Git, GitHub, Unity

CO-CURRICULAR AND ACHIEVEMENTS

- Qualified for ZS Campus Beats Tech Challenge - Selected nationally among top teams for advanced round in ZS Associates' programming competition (April 2025).
- Earned a Gold Medal at the State Level SOF International Olympiad for solving advanced mathematical concepts and over 10 complex problems.
- Achieved top rank in the All India ISC examination for computer science and mathematics, outperforming over 50,000 candidates nationwide.
- Core Member of IoT Club (PR & Digital Outreach) (2022–2025) and Fusion Club (2024–2025) at VIT University, selected from over 100 applicants. Actively involved in organizing technical events, securing industry speakers, and executing innovative campus-wide initiatives.

CERTIFICATIONS

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