

## CONTACT

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## EDUCATION

### LOTUS VALLEY INTERNATIO-NAL SCHOOL, NOIDA

- Class X : 96.4%
- Class XII: 82.6%

### 2022 - 2026 VIT UNIVERSITY, CHENNAI

- B. Tech Computer Science  
Engineering (Core)
- GPA: 9.41
- CGPA: 9.07

## SKILLS

- Compiler Design
- Data Structures and Algorithms
- Operating Systems
- Embedded Systems
- Java, C, C++, Verilog
- HTML, CSS, ReactJS
- JavaScript, SQL, Python
- MongoDB
- Git
- Artificial Intelligence
- Firebase
- Full Stack Coding
- Problem-Solving
- Database Management Systems
- Multiple Operating Systems
- Project Management Tools
- Strong Communication
- Critical Thinking

## LANGUAGES

- Hindi ● ● ● ● ●
- English ● ● ● ● ●
- French ● ● ● ● ●

# VIREN HOODA

## PROFESSIONAL OBJECTIVE

Motivated third-year computer science engineering student with a strong foundation in programming languages such as Python, Java, and C++. Proficient in algorithm design and problem-solving.

Seeking opportunities to apply theoretical knowledge, gain practical experience, and contribute to innovative projects in software development, data science, or related fields.

## PROJECTS

- Dr. Symptoms:** Developed a deep learning-based image classification system using VGG, improving diagnostic precision by 30%. Integrated NLP for symptom analysis and provided automated healthcare insights, increasing accuracy by 40%. Optimized model performance for parallel processing on GPUs, reducing inference time by 25% [LINK](#)
- Digital Token Generation & Validation Website:** Interactive and responsive user interfaces using ReactJS and CSS; managed user databases with Supabase for secure identification of over 180 users. Integrated Google Sheets for mail merge and QR-based authentication, streamlining email communication and reducing user waiting time by 50%. [LINK](#)
- Blogging Blitz:** Engineered a scalable MERN Stack web application for a blogging contest, accommodating 200+ participants, and ensuring a seamless user experience through efficient load handling and dynamic content updates. Utilized MongoDB for secure data storage and Firebase for image management. Implemented JWT authentication, leading to a 30% increase in web traffic [LINK](#)
- Braille Learning Assistant:** Developed it for easy braille learnig for vision impaired people which uses raspberry pi along with arduino for its functioning.
- University Database Management System:** Created using SQL which offers a wide range of functions and maintains five databases with a webpage for easy access to the data.
- Obstacle Detecting Smart Sling:** Created to enhance the mobility and safety of blind individuals by providing real-time obstacle detection and notification using array of sensors and audio cues.

## ACTIVITIES AND INTERESTS

- Active participant in various club activities at VIT
- Hackathons: Smart India Hackathon, GIS Hackathon, etc
- Engaged in organizing and participating in hackathons, skits, and other events
- Enjoy participating in local races and marathons fostering physical endurance and personal achievement
- Engage in swimming for both fitness and relaxation