

# Sneh Patel

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## EDUCATION

### Vellore Institute Of Technology

*B.Tech in Computer Science and Engineering (Information Security)*

CGPA: 8.89

*September 2022 – Present*

### Manav Kendra Gyan Mandir School

*Higher Secondary Education (PCMB)*

Score: 93%

*April 2020 – May 2022*

### Manav School

*Secondary Education*

Score: 90.2%

*March 2020*

## PROJECTS

### Textile Design Search System | *Image Processing* ([GitHub](#)) ([Live Site](#))

- Developed a web-based **image similarity search engine** using **Python (Flask)** backend and a responsive frontend, enabling users to upload design files and retrieve **visually similar images** from an indexed database.
- Implemented an intuitive **drag-and-drop file upload system** with configurable search parameters, allowing users to specify the number of similar images to retrieve.
- Built automated **image indexing and similarity algorithms** leveraging **OpenCV** and **NumPy** for efficient feature extraction and retrieval.
- Designed for use in industries such as **fashion, fabric design, and digital design repositories**.

### KhanaBuddy | *AI-Powered Food Ordering Web Application* ([GitHub](#)) ([Live Site](#))

- Built a **voice-enabled food ordering web application** using **React.js/Next.js** and **Web Speech API**, implementing **natural language processing** for voice commands, **real-time speech recognition/synthesis**, and **conversational AI interface** with **hands-free ordering** capabilities.
- Implemented advanced **voice command parsing** for **quantities, menu items, and order modifications** with **persistent storage, real-time calculations, and intelligent error handling**.
- Integrated **Web Speech API (SpeechRecognition and SpeechSynthesis)** for **hands-free ordering** functionality.

### RideMate - MERN Stack Taxi-Sharing Platform ([GitHub](#)) ([Live Site](#))

- React.js, Redux Toolkit, MUI, Google Maps API, Socket.io, Node.js, MongoDB, Render, Vercel
- Built and deployed a real-time ride-sharing web app with live chat (**Socket.io**), ride matching, and geolocation routing using **Google Maps API** and **GeoLib**.
- Implemented secure user authentication using **JWT, HttpOnly** cookies, and Google login; managed session flow with Redux Toolkit and persistent access tokens. Deployed frontend on **Vercel** and backend on **Render**.
- Engineered a RESTful backend (**Express, MongoDB**) and integrated **Cloudinary** and **Multer** for image uploads.

### Banana MarketPrice | *React.js, Next.js* ([GitHub](#))

- Built intuitive **React interfaces** for **user login, product listing, and interactive dashboards**, featuring **responsive layouts and dynamic state management** using **React hooks**.
- Developed a **real-time platform** connecting **banana farmers and wholesalers**, streamlining **produce management and pricing updates**.

## TECHNICAL SKILLS

**Skills:** Data Structures & Algorithms, Front End Web Development

**Frameworks & Technologies:** React.js, Node.js, REST APIs, Express

**Developer Tools :** VS Code, IntelliJ, Git, GitHub & MySQL Workbench

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

**Soft Skills:** Leadership, Management, Teamwork, Communication, Creative Thinking, Problem & Analytical Solving

## ACHIEVEMENTS / CERTIFICATIONS

–**Microsoft Certified: AI Fundamentals:** Demonstrated proficiency in AI concepts, including machine learning, computer vision, and natural language processing. ([Certificate](#))

–**LeetCode:** –Solved over 450 algorithmic problems across various platforms including LeetCode, contributing to a strong foundation in data structures and algorithms. ([LeetCode Profile](#))

–**Technica Hackathon Participant:** Awarded a participation certificate in a 48-hour PAN India hackathon organized by ISTE-VIT, focused on themes such as Fin-Tech, Electrique, Technic-AI, and Open Innovation.

–**Volunteer Youth Red Cross - VIT Vellore:** Assisted in organizing blood donation camps and events promoting awareness, and supporting donor registration and logistics