

Simran Sota

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Education

- **Shri Dwarkadas J. Sanghvi College of Engineering (Mumbai University)** Mumbai, India
Bachelor of Technology in Information Technology Nov 2022 - Jun 2026
 - Computer Networks, Operating Systems, Software Development Lifecycle, Agile Methodologies, Database Management Systems

Technical Skills

Programming Languages: Python, C++, C, Java, JavaScript, SQL, TypeScript, Dart

Front-end Development: ReactJS, HTML, CSS, NextJs, Tailwind CSS, ThreeJs, Flutter

Back-end Development : Node.js, Express.js, MongoDB, MySQL relational Database

Designing: Canva, Figma, Spline, Framer Motion

Others: Git, GitHub, Data Processing, Pandas, Matplotlib, JSON, RESTful Services, Agile Methodology and practices, Machine Learning, Postman

Experience

- **Research Intern, Centre for Development of Advanced Computing** Jun 2024 - Present
 - Led in-depth research on **data visualisation to Audio**, contributing to the development of accessible tools for **visually impaired users**.
 - Gathered data to support the development **using web scraping and respectful data collection processes** Used debugging tools to implement smooth integrations and maintained efficient documentation.
 - **Tech Stack Used: Python, Selenium, BeautifulSoup**
- **UI/UX Intern, Deep Vision** Jun 2024 - August 2024
 - Performed in-depth **user research and usability testing** to pinpoint user needs, significantly improving website usability and engagement by 20%.
 - Engineered **dynamic interactive elements** to elevate user experience and interaction. Crafted **wireframes, prototypes, and high-fidelity mockups** in **Figma**, translating **design concepts into actionable insights and gathering critical feedback**.
 - Communicated with non-technical audiences to gather user needs and translated them into design mock-ups.

Projects

- **Law Assist**
 - Engineered an all-in-one user interface (**Web Application**) for undertrial prisoners, pro Bono cases and lawyers.
 - Developed a **reward points-based algorithm to optimize lawyer-matching processes**, tailored to user inputs. Designed a **responsive and intuitive dashboard** and integrated **chatbot** for better usability.
 - **Techstack:** NextJs, TailwindCSS, TypeScript
- **Udaan (Smart India Hackathon Winning Project)**
 - Developed **AI-powered dropout prediction models** using ANN to identify and assist at-risk students.
 - Designed intuitive **web and mobile interfaces** for seamless access across **rural and urban areas**.
 - Implemented **AR-based learning tools, mental health support**, and an **offline-compatible AI DoubtBot**.
 - **Tech Stack:** Next.js, MongoDB, Node.js, Flutter, Scikit-learn, TensorFlow, Keras, Numpy, Flask, Selenium.

Involvement

- **DJS TEDx, Web Development Lead** Jan 2023 - Jun 2023
 - Developed a **responsive, dynamic website** for TEDx events with real-time content updates.
 - Worked on the UI/UX for **seamless navigation**, boosting attendee engagement and visibility.
 - Integrated features like **interactive schedules** and **live updates** for enhanced user experience.

Achievements

- **2nd Runner Up, Applied AI Hackathon 2025**
 - Secured **2nd Runner Up** among **50+ teams** by designing an web and app application to make studying engaging.
- **1st Prize, Smart India Hackathon 2024**
 - Secured **1st place** among **1500+ teams** by designing an web and app application for at risk students.
- **2nd Runner-Up, Pixel Paranoia UI/UX Hackathon**
 - Secured **2nd place** among **50+ teams** by designing an innovative and accessible user interface.
- **1st Prize, Business Pitching Competition by E-Cell, SPIT**
 - Outperformed **50+ teams** with a business model focusing on a practical **AI-driven Fashion Expert**.