TEJAS CHAVAN

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EDUCATION

Bachelor of Technology – Electronics and Instrumentation — **2022-2026**
VIT Vellore — Vellore, Tamil Nadu

Primary Education — **2008-2020**
S. B. O. A. Public School — Chh. Sambhajinagar, Maharashtra

Secondary Education — **2020-2022**
Sarosh Junior College — Chh. Sambhajinagar, Maharashtra

SKILLS

Programming Languages: Python | Java | JavaScript | Typescript | Verilog | R | C++

Technologies: Git | GitHub | React.js | express.js | Next.js | Mongodb | TailwindCSS | Orcad Pspice | Matlab

Additional Skills: Data Structures and Algorithms | Azure AI Certified

NOTABLE PROJECTS

HILINK

(*Next.js, Tailwind CSS*)

Hilink is a cutting-edge travel user interface designed to streamline and enhance the user experience for travel planning and booking. Developed with TypeScript, the project leverages modern web technologies to ensure a robust, scalable, and maintainable codebase. Hilink integrates seamlessly with various travel services, providing users with a comprehensive platform to manage their travel needs.

Horizon Banking Web App

(Next.js, TypeScript, Appwrite, Plaid, Dwolla, React Hook Form, Zod, TailwindCSS, Chart.js, ShadCN)

Built and deployed a modern banking app with a comprehensive finance management dashboard using Next.js 14. Designed a user-friendly interface with responsive layouts, enhancing user experience across all devices. Integrated secure user authentication and authorization mechanisms to ensure data privacy and protection. Implemented real-time transaction tracking, budgeting tools, and financial analytics for user convenience. Leveraged Next.js features for server-side rendering, ensuring fast load times and SEO optimization. Utilized Redux for state management and integrated with financial APIs for real-time data synchronization.

Research Paper: Non-invasive Methods for Detecting Diabetes

(*References: IEEE Research Papers*)

Investigated various non-invasive techniques such as photoplethysmography (PPG), electrocardiography (ECG), and skin impedance measurements. Developed and trained machine learning models to analyze physiological data and predict diabetes presence with high accuracy. Compared different machine learning algorithms, including neural networks, support vector machines, and random forests, to identify the most effective approaches. Conducted extensive validation using clinical data to ensure reliability and robustness of the proposed models**.** Discussed the potential for integrating these models into wearable devices and mobile applications for continuous monitoring.

EXPERIENCE

Maharashtra State Electricity Transmission Co. Ltd. (MAHATRANSCO)

Intern(Jun 2024 – July 2024)

Assisted in the maintenance and operation of high-voltage transmission lines and substations. Conducted site inspections and assisted in troubleshooting electrical issues to ensure uninterrupted power transmission. Collaborated with senior engineers to develop and document standard operating procedures for various electrical systems. Participated in safety drills.