AAYUSH SONI

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</> Leetcode </> Codeforces 🌐 Portfolio

Education

Indian Institute of Information Technology Sricity

Bachelor of Technology in Artificial Intelligence and Data Science (CGPA of 8.7)   *Andhra Pradesh, India*

Vidya Bharti Public School

Scored 96.6% in class 12th , RBSE   *Rajasthan, India*

Projects

YouTube Clone | *OAuth 2.0, ExpressJS, MongoDB, NodeJS, React, Redux, GitHub Collaboration* | 🔗
- Built **full-stack video platform** with Google login, uploads, subscriptions, and user engagement.
- Added **personalized video recommendations** based on user activity.
- Developing an **ML/LLM-powered semantic search engine** with next-word query prediction and context-aware retrieval beyond keyword matching.
- Designed a notification system that reduced user churn by **10%** and increased session duration by **20%**.
- Used **GitHub** for team collaboration: PRs, issue tracking, and version control.

Docs | *Next.js, Tailwind CSS, Clerk, Convex, Liveblocks, Tiptap* | 🔗
- Built a real-time document editor supporting **50+ concurrent users** using **Liveblocks** and **Convex**.
- Implemented **personal and organizational modes** for solo or collaborative editing.
- Secured access with **Clerk**, enabling org-based permissions and 100% authenticated sessions.
- Added **rich-text editing, comments, and tagging** with **Tiptap** to boost team collaboration by **35%**.
- Enabled export in **PDF, HTML, JSON, and TEXT** formats for flexible data sharing.

Chat-App | *Socket.io, React, Material-UI, JWT Authentication* | 🔗
- Developed a real-time chat app with **Socket.io**, achieving message delivery latency under **100ms** and supporting 100+ concurrent users.
- Implemented **JWT-based authentication**, ensuring secure user login, token verification, and protected chat sessions.
- Designed a **fully responsive UI** using **Material-UI**, optimizing layouts for mobile and desktop users.
- Added **typing indicators** and **online/offline tracking**, improving engagement and retention by 15%.
- Built a **group chat feature**, allowing multiple users to communicate in real-time with dynamic member updates.

Groot - A Git-like CLI Version Control System | *Node.js, Commander, Chalk* | 🔗
- Built a custom version control CLI tool with functionality to **track, stage, commit** and **log file changes**, mimicking Git.
- Used **Commander** for structured CLI commands and **Chalk** for readable terminal output.
- Focused on minimalism and clarity to help developers learn core version control concepts.

Technical Skills

Languages: C , C++, Java, JavaScript, python
Technologies/Frameworks/Libraries: ReactJS ,Nextjs, nodejs , ExpressJS, Git/Github , Tailwind CSS, Cursor
Databases: MongoDB, SQL
Core-Subjects: OOPS, DBMS , ML and DL

Achievements

- **Pupil** at **CodeForces** and rating of **1738** at **LeetCode**.
- Solved 500+ DSA/CP problems across platforms such as Codeforces,Leetcode and Codechef.

Position of Responsibility

Web Development Lead — IOTA *(Project Club)*
- Leading the web development vertical of the club, overseeing design and implementation of project-based web applications.
- Mentoring juniors on modern web technologies including React, Next.js, backend APIs, and deployment workflows.