Abhignyan Udgata

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SUMMARY

Second-year Computer Science student who builds and ships full-stack projects independently, from anonymous social platforms to data-processing tools, while strengthening core CS fundamentals through consistent DSA practice. Seeking an internship to apply this hands-on experience on a real engineering team.

PROJECTS

ORCA | *LangGraph, LangChain, Python, React, TypeScript, PostgreSQL, SQLite*

- Built ORCA, an agentic AI platform for marine risk intelligence, for Smart India Hackathon 2026.
- Architected five specialized LLM agents using LangGraph, with content-driven routing and collaborative risk assessment.
- Combined deterministic geospatial and safety engines with automated citation audits to improve the traceability and reliability of generated answers.
- Integrated INCOIS ERDDAP data, configurable LLM providers, and SQLite/PostgreSQL persistence; developed a React 19 + TypeScript interface with real-time SSE streaming, interactive coastal maps, and session history.

Anon Boards | *React, TypeScript, Vite, Tailwind CSS, shadcn/ui, Supabase (Postgres + Edge Functions)*

- Built and deployed an anonymous message board web app where users post and reply without creating an account, with automatic anonymous ID assignment per visitor.
- Implemented topic-based boards with New/Hot/Top sorting, threaded replies, and a likes system driving the Hot feed ranking across multiple boards.
- Designed an optional account system (via Supabase Auth) allowing users to save a username and track post/reply history across sessions.
- Built and deployed 10+ Supabase Edge Functions (Hono) as the backend API layer, backed by a Postgres + key-value store for data persistence; deployed live on Vercel.
- Iterated on an earlier prototype into a full React/TypeScript rebuild across 20+ commits, improving structure and UI with shadcn/ui components.

Crate | *HTML, JavaScript, Google OAuth*

- Built a client-side web app that converts a Spotify playlist export (CSV) into clickable YouTube search links for every track, removing the need to manually search each song.
- Integrated with Exportify (third-party Spotify CSV export tool) to create an end-to-end playlist-to-YouTube workflow.
- Added automatic CSV column detection for song title/artist fields, with manual override dropdowns for edge cases.
- Implemented convenience features: bulk-opening the first 10 tracks as tabs, copy-all-links, and downloadable .txt export.
- Added optional Google sign-in so users can save and revisit playlists, while keeping core functionality fully client-side and account-free by default.
- Deployed the project live on Vercel with zero backend dependency for the core conversion flow.

PROBLEM SOLVING

- Actively solving Data Structures & Algorithms problems on LeetCode, covering arrays, strings, trees, and dynamic programming.

SKILLS

- Languages: JavaScript, TypeScript, Python, Java, HTML, CSS, SQL
- Frameworks/Libraries: React, Tailwind CSS, shadcn/ui, LangGraph, LangChain, Streamlit
- Backend/Infra: Supabase (Postgres, Edge Functions, Auth), Vite, Node.js, MySQL, Oracle Database
- Tools: Git, GitHub, Vercel, GitHub Pages, MATLAB, Xilinx Vivado
- Concepts: REST/API integration, responsive design, client-side data processing, OAuth, Database Management Systems (DBMS)

EDUCATION

B.Tech in Computer Science — VIT-AP University
2025 – 2029 | CGPA: 8.40

Class XII (Mathematics and Computer Science) — Kendriya Vidyalaya
Mar 2022 – May 2023