AAYUSH ACHARYA

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**PROFILE**

I’m a BSc CSIT Student with an interest in web development, AI, and problem solving. I enjoy learning through hands on projects and apply technology to real world problems. Am adaptable, curious and open to new challenges.

**EDUCATION**

**St. Xavier's College, Maitighar – Tribhuvan University**

*B.Sc. Computer Science and Information Technology (CSIT)*  
2022 – Present

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|  | C:\Users\N I T R O\AppData\Local\Microsoft\Windows\Clipboard\HistoryData\{018C32B3-DBB2-43A6-A931-FC57C679A872}\{6528148D-1B7A-4149-99B1-A8137D704DE3}\ResourceMap\{0A9616DE-D9CE-4016-ADEF-DB2E6D37E5A0} |

**COURSEWORK HIGHLIGHTS** Data Structures and Algorithms, DBMS, Artificial Intelligence, Image Processing, Web Technology, Neural Network,

.NET, Statistics

**SKILLS**

Programming: JavaScript. C, C++, Python, HTML/CSS, MySQL

Frameworks & Tools: React, Tailwind, Bootstrap, Git, Github

Office Tools: Microsoft Word, Excel, Powerpoint, Google Docs, Canva

Soft Skills: Communication, Teamwork, Time Management, Problem Solving

**PROJECTS**

**Cyberpunk Themed Ultimate Tic Tac Toe** *HTML/CSS, JS*

https://github.com/acharya-aayush/Ultimate-Tic-Tac-Toe-Night-City-Edition

A web-based, cyberpunk-themed implementation of Ultimate Tic Tac Toe featuring advanced AI opponents with four difficulty levels, immersive neon visuals, and a dynamic soundtrack. The application offers modular code organization and supports real-time AI move logging/export.

**TypeSmash** *HTML/CSS, JavaScript, Canvas API* https://github.com/acharya-aayush/TypeSmash A minimalist typing test web application inspired by MonkeyType, featuring detailed statistics, multiple test modes (timed and word-count), advanced analytics, modular architecture, and a unique arcade “Zoro Mode”. Implements a custom audio system, dark mode, and visual performance charts.

**Taskify** *React, Tailwind CSS, Type Script, Vite* https://github.com/acharya-aayush/Taskify A modern, drag-and-drop task management app built with React and TypeScript. Utilizes the DnD Kit for interactions and Tailwind CSS for styling. Designed for ease of use and rapid productivity, featuring a clean interface and responsive layout. Built using Vite for fast development and optimized builds.

**TradeHeaven** *React, typescript, tailwind, shadcn ui, Node.js, express, sqlite, vite*

https://github.com/acharya-aayush/TradeHeaven

A multi-user trading platform demo featuring a React frontend styled with Tailwind CSS and Shadcn UI, and a Node.js/Express backend with SQLite. Supports JWT-based authentication, real-time trading, portfolio and wallet management, watchlists, and auto-cleanup for server uptime. Visualizes trading data using Recharts and manages state with React Context and Hooks.

**Vision Mate** *Vite + React + TypeScript, Tailwind CSS + Shadcn UI components, TensorFlow for object detection, Web Speech API for audio feedback* https://github.com/acharya-aayush/SXC-2.0- Hackathon\_Project/tree/main/JPT-Coders/App\_Template\_Modified

A lightweight navigation tool for visually impaired peeps that runs on smart glasses. Built during SXC 2.0 Hackathon What it does Detects objects and obstacles in real-time Provides audio feedback about surroundings Works locally without internet.

**AWARDS**

**\*\*SXC 2.0 Hackathon Winner (March 2024)\*\***

- Won 1st Place (Gold Medal) for building "Vision Mate" – an offline web-app assistant to be integrated in smart glasses for the visually impaired.

- Built with React, TypeScript, TensorFlow under 48 hours. Judged best for accessibility innovation and real-time performance.

**INTERESTS**

Simulation Game Design & Modding  
UI/UX design explorations  
Football Analytics, Tactics Modeling & Match Simulations  
Algorithmic Trading & Stock Market Forecasting