



AKSHATH SURWASE

Indian Institute of Technology Kharagpur

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Percentage
2027	B.Tech, Chemical Engineering	Indian Institute of Technology Kharagpur	8.76
2023	Class XII, CBSE	Poddar Brio International School	92.1%
2021	Class X, ICSE	Lilavatibai Podar High School, Mumbai	93%

PROJECTS

- Spotify WebApp Clone** Jan-March`25 *Self Project*
- Built a **full-stack** Spotify-inspired web app with authentication, playlist creation, and music playback features using modern web technologies.
 - Built a pixel-perfect responsive frontend UI using **React** and **Tailwind CSS**, combining Spotify's layout with unique **personalized UX touches**.
 - Implemented backend with **Express.js** and **MongoDB** to design scalable **RESTful APIs** and enable smooth data handling across components.
 - Managed secure user **authentication using JWT** and maintained persistent artist, playlist and song data for **50+ registered user accounts**.
 - Integrated playback for **30+ cloud-hosted tracks** using **Cloudinary** with responsive audio controls and a smooth track-switching experience.
 - Managed states across various components using **React Context API** for a fluid UX mainly across **3 key modules** (auth, playlists, playback).
 - Link to the project:** <https://spotify-clone-2kog.onrender.com> (**Best viewed on desktop**)
- Social Media App** Dec`24 *Self Project*
- Built a full-stack social media platform with **Google authentication** using **Firebase** for secure, reliable, and seamless user login experience.
 - Designed a scalable backend using **Firestore (NoSQL)**, enabling real-time data synchronization for **live post updates** and user interactions.
 - Implemented full **CRUD operations** for blog posts with dynamic feeds supporting **create, edit, delete, and view** functionalities for every user.
 - Engineered **optimistic UI** logic for **instant like feedback**, closely mimicking Instagram's seamless, responsive, and fluid interaction behaviour.
- GenX | AI Generated NFT Marketplace** Jan`25 *Self Project*
- Developed RESTful APIs using **Express.js** and **Mongoose**, handling user authentication via JWT, NFT creation, and curated marketplace listings.
 - Integrated **Hugging Face AI API** to generate unique NFT artwork from user prompts, enabling dynamic and personalized content generation.
 - Implemented **pagination + filtering** on the explore page using **Mongoose Aggregation Pipelines** for efficient querying and smooth browsing.
 - Created a **user dashboard** with interactive visualizations and insights using multiple **ShadCN UI components** and dynamic graph and charts.
 - Ensured integration of backend services into a responsive **Next.js** frontend with **smooth API calls**, enabling secure and fast transactions.

INTERNSHIPS

- Frontend Web Developer | WiZe (myLampAI)** Aug`24-Nov`24 *Internship*
- Built scalable and modular frontend architectures while integrating real-time capabilities via **WebSockets** for enhanced interactivity and UX.
 - Collaborated closely with backend teams** to integrate APIs into the frontend and implement the **AI Interviewer and CV Reviewer** features.
 - Ensured **seamless step-by-step flow** in the AI Interviewer feature by actively **debugging** and **refining component logic** for a smooth UX.
 - Contributed to launching AI-powered career guidance tools that helped WiZe (myLampAI) qualify for the final round of **Shark Tank India**.
 - Contributed to a **20% boost in platform engagement** by optimizing routing, render cycles, and state flows across high-impact user modules.

SKILLS AND EXPERTISE

Programming Languages: Proficient: JavaScript, C++, HTML, CSS | Familiar: C, Python, SQL(PostgreSQL), Java

Frameworks and Libraries: React.js, Next.js, Express.js, Mongoose, Tailwind CSS, Socket.io, Firebase, Prisma, ShadCN/UI, Axios

Tools and Platforms: Git, GitHub, Visual Studio Code, Postman, Cloudinary, Figma, MongoDB Atlas

COURSEWORK INFORMATION

- Programming and Data Structures (Theory and Lab)
- AlgoZenith AZ101 - Data Structures & Algorithms (Ongoing)
- Transform Calculus
- Linear Algebra
- Advanced Calculus

AWARDS AND ACHIEVEMENTS

- Secured an **All India Rank of 6260** in Joint Entrance Examination Advanced 2023 of **1,90,000 qualified candidates (top 0.03% nationwide)** .
- Secured an **All India Rank 6657** in Joint Entrance Examination Mains 2023 out of **12,00,000 candidates** with a score of **99.45 percentile**.
- Won the Creative Category Prize in the "Build Your Own Internet" Hackathon by Devfolio (in collaboration with **Coinbase, 1inch, Safe & Magic**) for building a **blockchain platform with seamless UI/UX**, leveraging given **WalletConnect API** for secure wallet transaction integration.

POSITIONS OF RESPONSIBILITY

- Actor | Technology Dramatics Society Pravah | IIT Kharagpur**
- Acted in stage productions** and **collaborated on scriptwriting and direction** as part of the dramatics society's core creative ensemble.
 - Mentored junior actors** by leading workshops and providing guidance in performance preparation, voice modulation, and stage presence.

EXTRA CURRICULAR ACTIVITIES

- Vocalist** at **Western Technology Music Society of IIT Kharagpur**. Gained **discipline and leadership** through rehearsals and performances.
- Won **Gold at Asia's largest cultural fest**, Spring Fest 2024, in the **Street Play Competition** against teams from top colleges nationwide.
- Participated in various **Inter-Hall General Championships**, competing in **Ad Design, OpenSoft, Stageplay, English Elocution, Western Vocals, and Western Instrumentals**. Demonstrated **versatility** across both **technical and cultural events** through consistent performance.