

Shaurya Aggarwal

 [shaurya-aggarwal07](#)  +91-9548565672  [Shaurya Aggarwal](#)  shaurya.iitp@gmail.com

EDUCATION

B.Tech in Electrical and Electronics Engineering <i>INDIAN INSTITUTE OF TECHNOLOGY, PATNA</i>	AUG. 2023 – AUG 2027 <i>CPI: 8.17</i>
Class XII (CBSE) <i>DELHI PUBLIC SCHOOL, SRE</i>	2021 – 2022 <i>Marks: 97.8%</i>
Class X (CBSE) <i>DELHI PUBLIC SCHOOL, SRE</i>	2019 – 2020 <i>Marks: 96.4%</i>

PROJECTS

Driver Drowsiness Detection System <i>React, WebSocket, Python, OpenCV, Express.js</i>	DDD
- Led a team of 4 to build a full-stack solution integrating machine learning and computer vision - Developed a real-time detection system achieving 85% accuracy at a 20FPS frame rate with 4ms latency. - Optimized detection time to 0.5 seconds, thus enhancing responsiveness and system reliability. - Architected a modern UI with live chart visualization, facial expression analysis and real time notifications, increasing user engagement by 100%	
SkillSwap- Peer to peer skill exchange platform <i>Express.JS, Tailwind, MongoDB, ReactJS, JWT</i>	
- Created this platform in 8 hours during Odoo 2025 Hackathon in a team of 3 - Developed a mini-application enabling users to exchange skills by listing what they offer and what they seek, streamlining peer learning for 100+ users. - Integrated secure role-based access control with user and admin workflows, enabling feedback tracking, ban actions, and activity audits to uphold platform quality. - Modernised user experience with features like public/private profiles, rating system post swaps, and deletion of inactive swap offers, ensuring a user-centric and scalable design.	
IIT Sphere- Cross IITs event management platform <i>ReactJS, NextJS, Tailwind, MongoDB, JWT</i>	
- Engineered a community based platform for 23+ IITs, incorporating role-based access control (RBAC). - Built secure college email authentication and custom validation system for 100% verified sign-ups. - Designed modern UI which includes post and comment system with protected route access. - MVP is structured for multi-institute rollout supporting 23+ institutes with isolated auth, posts, and moderation logic.	

SKILLS

Programming Languages: C++, JavaScript
Web Technologies/Frameworks: ReactJS, NextJS, Tailwind CSS, ExpressJS, HTML, CSS
Dev Tools: Node.js, Git, GitHub
Cloud/Databases: MySQL, MongoDB (Mongoose ORM)

ACHIEVEMENTS

- Selected in **top 250** teams in Odoo Hackathon 2025 out of 15,000+ participants
- Practiced a total of 400+ DSA problems across various platforms. **Leetcode Profile**
- Pupil On **Codeforces** with a peak rating of **1314**. **Codeforces Profile**
- Secured a Global Rank of **770** on **Codeforces** in round 1017 amongst 57000+ participants
- Ranked amongst top 1.2 percentile out of over 1.2 million candidates in JEE Mains 2023

RELEVANT COURSEWORK

Object Oriented Programming (**OOPS**), Database Management System (**DBMS**), Operating System (**OS**), Computer Networks, Data Science, Internet of Things, Microprocessor

SOCITIES/ EXTRA-CURRICULAR

- Coordinator, HOSCA** (2025-26)
Revamped old website into a modern next.js based SPA resulting in 50% decrease in page load time.
- Core Member, NJACK** (2024-25)
Coordinated with the team and organized web development events with 100+ participants, promoting tech engagement across campus.