

SAKSHAM AGRAWAL

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Chemical Engineering IIT (BHU), Varanasi	9.07	2027
CBSE (XII)	DALIMSS, Varanasi	93.00	2023
CBSE (X)	DALIMSS, Varanasi	96.80	2021

SKILLS

- **Languages** : C++, Python, JavaScript, Tpscript, Golang, SQL
- **Technologies/Frameworks** : HTML, React.js, Node.js, Express, EJS, Next.js, Django, Tailwind CSS
- **Tools/Platforms** : Git, GitHub, Docker, MongoDB, Firebase, Linux, Postman
- **Area of Interest** : Software Development, Open-Source, Data Structures & Algorithms

INTERNSHIP/TRAINING

Mittal Alliance Industries Pvt. Ltd. (Full-Stack Developer)

May 2025 - June 2025

- Built dynamic and interactive components for the company's web platform using **React**, **HTML**, **CSS** and **JavaScript** improving **UX** and accessibility, also ensured full **mobile responsiveness**.
- Integrated backend functionalities via **APIs** to enable seamless frontend-backend interaction.

PROJECTS

Code-Exchange Web App

- Full-stack web app inspired by **Stack Overflow**, built with **Node.js**, **Express.js**, **MongoDB**, **EJS**, and styled using **Tailwind CSS**.
- Built **authentication** with Google and Email/Password, with complete Q&A system, **markdown**, and tags support.
- Added answer reactions, **theme toggle** with persistence, and user profiles showing question/answer history.
- Integrated **Stack Exchange API** for real-time questions/answers from Stack Overflow.
- **Relevant Links**: [GitHub Deployment](#)

AI-Powered Renewable Energy Forecasting System

Team Hackathon Project

- Built a **Next.js** web app to predict and visualize **renewable energy generation** using ML models & interactive dashboards with secure access via **Next-auth** for authorized agencies.
- Integrated GRU + XGBoost models via **Groq SDK** for location-based forecasting.
- Developed a responsive UI with **MapboxGL**, **Recharts**, and **Framer Motion** for dynamic visualizations.
- **Relevant Links**: [GitHub Deployment](#)

POSITION OF RESPONSIBILITY

Technical Contributor | Event Coordinator | SDG - COPS IIT BHU

July 2024 - Present

- Led Freshers' Orientation, workshops on **Git**, **programming** & **web dev**, and curated structured learning resources.
- Mentored students and evaluated projects during DebugIt COPS Week '25 and Summer of Code '25 in the web track.
- Contributed to club **open-source** projects: Multiplayer UNO game (**MERN**), COPS website(**React**), Institute Grievance Portal, and Digital Permission System.

Technical Associate | E-Cell IIT BHU

July 2024 - April 2025

- Built interactive **UIs** and **Apis** for the official website and Campus Ambassador Portal using **Next.js**.
- Integrated **dynamic forms** to improve user interaction and data handling with **Firebase**.
- Added **Framer Motion** animations and managed web updates for E-Summit'25 technical execution.

Technical Executive | Osmoze'25 | Sochem

July 2024 - April 2025

- Led **Next.js backend** development for Osmoze (annual fest) site, integrating **Firebase** services & alumni data.
- Built seamless user onboarding and event registration flow (**100+** entries) with real-time updates. [Deployment](#)

HONOURS AND ACHIEVEMENTS

- Secured **2nd** position in the **Hack It Out** hackathon at **Technex '25** (IIT BHU)
- Received the **Achievers Award** as **Science Stream Topper** in XII board (Sub-Topper: Chemistry & Maths).
- Contributed **100+ Pull Requests** to diverse **open-source projects** on **GitHub**.
- **Gold Topper** at **Brainobrain 2018** – State-Level Inter-School Competition (**State Rank**: 220/1236, **City Rank**: 11/62)

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