SAKSHAM AGRAWAL

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Sophomore at IIT (BHU) Varanasi, passionate about web development and modern programming. I love building dynamic, user-friendly applications and constantly explore new technologies to bridge the gap between theory and real-world applications. With strong problem-solving and communication skills, I enjoy working on innovative projects that push my technical boundaries. Always eager to learn and grow, I'm open to opportunities where I can contribute, collaborate, and create impactful solutions in the tech industry.

WORK EXPERIENCE

Core member: Software Development Guild, Club of Programmers (COPS) , IIT (BHU) Varanasi **June 2024 - Present**

- Led Freshers' Orientation & Induction, organizing sessions and hands-on workshops on programming and web development.
- Contributed to open-source projects, including Multiplayer UNO (MERN Stack), COPS Website (React), and Institute Grievance Portal.

Techinal Associate, E-cell , IIT (BHU) Varanasi **May 2024 - May 2025**

- Contributed to E-Cell's official website, developing an interactive UI using Next.js and integrating dynamic forms.
- Managed technical requirements for regular events and annual fest E-Summit'25, ensuring seamless execution and user engagement.

Tech Member, Spardha'24 IIT (BHU) Varanasi **August 2024 - October 2024**

- Enhanced operational workflows by maintaining well-organized documentation systems and updating website with dates, events and design.

Technical Executive, Society of Chemical Engineers IIT (BHU) Varanasi **May 2024 - Present**

- Contributed to the SoChem website by implementing Firebase auth and integrating alumni data.
- Developed user onboarding and event registration features for the annual fest, Osmoze.

React Developer Intern, Mittal Alliance pvt. ltd **April 2025 - May 2025**

- Designing and developing user interfaces from Figma to functional frontend implementation.
- Implementing backend functionalities to support frontend operations.
- Ensuring mobile responsiveness and optimizing websites for various screen sizes to enhance UI.

EDUCATION

Indian Institute of Technology (BHU) Varanasi **July 2023 - Present**

Bachelor of Technology in Chemical Engineering

DALIMSS Sunbeam School, Varanasi, U.P. **April 2010 - June 2023**

CBSE Board [Science]

- High school:- 97% Intermediate:- 96.2%
- JEE Mains:- 99.2%ile JEE Advanced:- CRL 6225

SKILLS

- Technical : **HTML , CSS, JavaScript, React.js, Tailwind CSS, Node.js, Express.js, EJS, Next.js, MongoDB, Firebase, C++, Golang, Git & Github, Django**
- Soft : **Public Speaking, Team Management, Time Management**

PROJECTS

CodeExchange Web App *https://codeexchange-3s2g.onrender.com*

- Developed a simplified web application replicating core functionalities of Stack Overflow using Node.js and MongoDB.
- Implemented user authentication with JWT, question and answer management, and basic user profiles.
- Enabled functionalities for users to ask, answer, and delete questions and answers, and list and view question details.
- Styled the frontend with EJS and Tailwind CSS, and managed the backend with Express.js and Mongoose.

A DIscord Bot (skx_bot) *https://discord.com/oauth2/authorize?client_id=1316247901420126218*

- Developed a versatile Discord bot using discord.js that supports translation, meme generation, user information, and other utility commands.
- Enhanced user engagement with features like automatic welcome messages for new members and developer links.

AI-Powered Renewable Energy Forecasting System *https://shannonntpc.vercel.app/*
(Group Project – 1st Runner-Up, HackitOut Hackathon, Technex'25 IIT BHU)

- Implementation GRU + XGBoost model for energy forecasting and integration of GROQ API. (My role was to send location data to ML model and fetch predicted results from backend)
- Integrated Google Mapbox API for location-based energy predictions.
- Designed a user-friendly dashboard with dynamic charts to visualize energy forecasts. Implemented Google authentication via Firebase Auth to secure access for authorized agencies.
- Users can query energy forecasts for any location, and the system provides efficiency metrics to aid power grid planning and reduce fossil fuel dependency.