PRAKHAR PORWAL

Ghaziabad, Uttar Pradesh

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Education

Ajay Kumar Garg Engineering College   Ghaziabad, IN
Bachelor of Technology - Computer Science and Engineering   *2022-2026*

Experience

Frontend Developer (React Ecosystem)   **Dec 2024 – Present**
Self-Initiated Projects & Learning

- Developed high-performance SPAs using React.js, Vite, and Tailwind CSS, leveraging Hooks, Context API, and component-driven architecture for scalable, maintainable codebases.
- Integrated RESTful APIs with Axios and async/await, optimized UI with memoization, lazy loading, and code splitting, following Git workflows and responsive design best practices.

Projects

LockedIn: Immersive Focus Timer App | *React, TailwindCSS, Recharts, LocalStorage, Web Audio API*

- Developed a fully client-side single-page application (SPA) offering immersive focus sessions with dynamic themes, ambient audio, and smooth animated transitions.
- Enabled personalized experiences—session types, preferences, and visual modes—persisted locally via LocalStorage, with no sign-up required.
- Visualized session history and focus trends using Recharts (radial charts, heatmaps), powered entirely on-device to maintain privacy and offline access.

Context-Aware Dark Mode with Emotion Recognition | *React, TensorFlow.js, WebRTC, CSS Modules*

- Engineered a SPA with real-time facial emotion recognition by integrating TensorFlow.js models running client-side via WebRTC webcam streams, ensuring low-latency inference with debouncing and performance optimizations to minimize render thrashing.
- Developed a dynamic theming engine leveraging React Context API with granular state management via Hooks, incorporating CSS Modules for modular styling and hardware-accelerated CSS transitions, ensuring low-latency UI responsiveness and adaptive accessibility compliance.

Certifications

Infosys Springboard | *Python , Machine Learning, Data Science*

- Data Science with Python
- Python Programming - 04

HP Life | Artificial Intelligence & Machine Learning

- AI for Beginners Certification

Technical Skills

Languages & Core Tools: Java, JavaScript (ES6+), Python, C/C++, HTML5, CSS3, Git, GitHub, VS Code, Postman, Jupyter Notebook, Google Colab

Frontend & UI Development: React.js, Redux, Tailwind CSS, Bootstrap, DOM Manipulation, Responsive Design, Figma (basics), Component-Based Architecture

Data & Development Practices: Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV, Matplotlib, Seaborn, Firebase, SQLite, RESTful APIs, OOP, Agile/Scrum, TDD, Version Control

Achievements

- Advanced to the second round of Scrolls, a national-level technical paper presentation competition organized by AKGEC in collaboration with the Ghaziabad Management Association (GMA), showcasing research and presentation skills.
- Finalist in Inter-College Hackathon: Developed a smart grid cybersecurity solution using Python and network monitoring tools.
- Solved **200+** problems on Leetcode
- Solved **90+** problems on CodeChef