

# Prakhar Dwivedi

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## SUMMARY

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Software engineering student focused on building polished, responsive, and production-ready frontend experiences using React and Next.js. Experienced in designing user-facing flows, integrating real-time APIs, and translating complex backend systems into clean, intuitive interfaces.

## EDUCATION

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IIIT Bhopal

B.Tech, Electronics & Communication Engineering, **CPI: 8.74**

Nov 2023 – June 2027, Coursework: DSA, OOP, DBMS, CN, Systems

## PROJECTS

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### PanditAI (2025)

Next.js, Python (FastAPI), Socket.IO (WebSockets), Redis, MongoDB, Docker

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- Built and deployed an **AI-driven** application that converts complex domain rules and astronomical computations into structured, machine-readable outputs consumed by **LLMs** for natural language responses
- Implemented a client-side heavy Next.js interface to present AI-generated hierarchical data with stable layouts and responsive views
- Crafted accessible, theme-driven UI components using Tailwind CSS v4 and Radix UI in a custom dark design system
- Achieved strong rendering performance with ~1.06s LCP, zero layout shift, and a lightweight ~210KB page weight by minimizing client-side overhead and optimizing render paths

### eVakeel (2025)

Generative AI, React, Fastify, GeminiAPI, Azure, Tailwind, Socket.IO, Node.js

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- Designed a multi-route React SPA for legal document exploration and AI-assisted chat using Vite and React Router
- Built animated, mobile-first interaction flows with Framer Motion and Tailwind CSS for smooth transitions and micro-interactions
- Delivered fast initial load and interaction with **~1.33s LCP**, **zero CLS**, and only 6 network requests through disciplined asset and bundle management
- Deployed the end-to-end system on **Azure** using **Dockerized services and reverse proxying**, ensuring reliable frontend-backend communication, scalability, and production stability

### Chatify - Production-Grade Real-Time Messaging System

Socket.IO, Redis, Docker, MongoDB, Node.js, Express.js

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- Engineered a real-time chat interface featuring live messaging, presence indicators, and authenticated route protection
- Coordinated global UI and session state with Zustand while integrating Socket.IO for low-latency message delivery
- Maintained responsive interactivity (TBT ~0.004s, CLS 0) while identifying LCP bottlenecks (~4.27s) caused by heavier assets
- Containerized **3 core services (API, Redis, MongoDB)** using **Docker** Compose, enabling **one-command setup** and consistent environments across development and deployment

## ACTIVITIES AND LEADERSHIP

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- Spearheaded a team of 4 in developing an AI-fueled career counseling web app, integrating chatbot interactions and ML-based recommendations; secured a **Top 10 position at Hack-O-Sprint 2024**.
- Organized and led the first-ever **Inter-IIIT Hackathon** internal round, engaging **40+** teams across departments.
- Managed end-to-end logistics for **Convocation 2024**, handled on-ground logistics and issue resolution for **500+** attendees

## ACHIEVEMENTS

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- Achieved **top 12K rank among 262K** participants in **Adobe India Hackathon 2025**, placing in the **top 5% nationally**
- **Ranked 1st** in the **ECE department** with a **9.32 SGPA** in **Semester 3**, demonstrating consistent academic excellence
- **1799** LeetCode & **1614** CodeChef (3★); solved **250+** DSA problems across **LeetCode**, **CodeChef** and **GeeksForGeeks**
- Directed **3+** peer sessions as **Teaching Assistant** for **Digital Logic Design**

## SKILLS

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- **Languages:** C, C++, Python, TypeScript, JavaScript, SQL
- **Frameworks & Libraries:** React, Next.js, Node.js, Fastify, Prisma, NextAuth.js, Tailwind CSS, Framer Motion
- **Databases:** PostgreSQL, MySQL, SQLite
- **Concepts:** Data Structures & Algorithms, REST APIs, Authentication, Database Design
- **Tools:** Git, GitHub, Docker, Linux (basics)