

# Neeraj Patel

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## Professional Summary

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Final-year Computer Science Engineering student specializing in full-stack web development (MERN). Deployed 4+ AI-driven applications with 50+ active users, optimizing performance and user experience. Skilled in scalable architecture, REST API development, JWT authentication, and modern UI frameworks using React, Node.js, Express, and Firebase. Interested in developing AI-powered applications that address real-world challenges, focusing on performance, scalability, and user impact.

## Projects

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### Ethical AI Detector | Live Demo | GitHub

- Developed an AI-driven bias detection tool analyzing **2,000+ words/day** for cultural, political, and emotional bias using Gemini API.
- Enhanced prompt engineering to deliver structured JSON outputs, improving bias categorization accuracy by **25%**.
- Implemented real-time bias scoring and rewriting suggestions, assisting **40+ users** in enhancing inclusive communication.
- Improved communication efficiency for college professionals, **30+ students**, and tech society members, achieving **95%** user satisfaction and gathering valuable feedback.
- **Tech Stack:** TypeScript, Gemini API, Shadcn, React, Express

### TextTune | Live Demo | GitHub

- Launched a full-stack AI writing assistant for grammar detection and contextual suggestions, supporting **10+ active users**.
- Integrated multilingual translation and context-aware grammar correction using Gemini API, increasing suggestion quality by **30%**.
- Streamlined UI using Tailwind CSS and React, reducing load time by **40%** and improving writing efficiency by **35%**.
- **Tech Stack:** Gemini API, React, Express, Node.js, Tailwind CSS, Firebase

### Passwordclearer | Live Demo | GitHub

- Designed a secure, scalable password management application to store and encrypt user login credentials, ensuring high-level data protection via browser-based storage encryption.
- Engineered a responsive, user-friendly interface with Tailwind CSS and React hooks, ensuring smooth navigation and intuitive state handling.
- **Tech Stack:** React, Tailwind CSS, Local Storage, JavaScript

### MovieBookApp (SkyMovie) | Live Demo | GitHub

- Built a responsive movie ticket booking interface using React and Tailwind CSS, enabling users to browse movies, and simulate seat booking with an interactive UI.
- Optimized seat reservation logic and streamlined complex UI transitions using React hooks and JavaScript, improving load performance by **25%**.
- Created a fully responsive, mobile-optimized interface with Tailwind CSS and CSAP animations, increasing mobile engagement by **40%**.
- **Tech Stack:** React, React Router, Tailwind CSS, CSAP, JavaScript

## Technical Skills

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**Languages:** C, C++, Python, Java, JavaScript, TypeScript, HTML, SQL

**Frontend:** React.js, Tailwind CSS, Shadcn, CSS

**Backend:** Node.js, Express.js, REST APIs, JWT, Bcrypt

**Databases:** MongoDB, SQL

**AI APIs:** Gemini API, Cohere API

**Tools:** Git, GitHub, Postman, VS Code, Bash, Render, Vercel

## Education

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**Meerut Institute of Engineering and Technology**

*B.Tech in Computer Science and Engineering (CSE)*

2022 – 2026

*Meerut, Uttar Pradesh*