

DIVYANSHU RAJ

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EDUCATION

VIT Bhopal University

B. Tech CSE with AI & ML- 8.59 CGPA

Bhopal, India

Expected July 2026

TECHNICAL SKILLS

Languages: JavaScript, Python, Java

Frontend: React.js, HTML5, CSS3, Tailwind CSS, Streamlit

Backend: Node.js, Express.js

Databases: MongoDB

Frameworks: MERN Stack, REST API

DevOps & Tools: GitHub, Postman, Vercel, Render, Cloudinary, VS Code

Libraries & APIs: JWT, bcrypt, Axios, React Router, Socket.IO, Puppeteer, Groq API

PROJECTS

Nexus : Full Stack Social Media Platform

Feb 2025 – Apr 2025

Full Stack Web Application

MERN Stack, Redux Toolkit, Socket.IO, JWT, Tailwind CSS

- Built a full-stack social media application using the MERN stack, developing over 20 RESTful API endpoints for core features including user authentication, posts, messaging, and user profiles.
- Established a robust security model using JSON Web Tokens (JWT) for stateless authentication and bcrypt for password hashing, safeguarding user credentials and securing 100% of data-handling API endpoints.
- Crafted a dynamic UI with React and Tailwind CSS from a library of 15+ reusable components, using Redux Toolkit for state management and Framer Motion for fluid animations.
- Devised a real-time messaging feature using Socket.IO for instantaneous private communication, maintaining message delivery latency below 200ms.

Email Formalizer : AI-Powered Communication Tool

May 2025 - June 2025 | Demo

Generative AI Web Application

Python, Streamlit, Groq API (LLaMA3 8B)

- Engineered a high-speed email formalizer leveraging the Groq API, achieving an average generation speed of over 300 tokens/second and delivering full email outputs in under 0.5 seconds.
- Improved user efficiency by designing a streamlined UI in Streamlit that reduced the process of composing a formal email to a single, intuitive action.
- Drove a 95% reduction in output errors through strategic prompt engineering, guaranteeing grammatically correct and tonally appropriate AI responses.
- Bolstered application security by externalizing all credentials, eliminating 100% of hard-coded secrets from the codebase to mitigate exposure risks in development and production.

SharedSlate : Full-Stack E-Learning Platform

June 2025 – July 2025 | Demo

MERN Stack Application with Real-Time Features

MERN Stack, Socket.IO, Puppeteer, Cloudinary, JWT, Tailwind CSS

- Architected a MERN-stack e-learning platform with role-based dashboards (JWT), and optimized the frontend to reduce initial load times by over 60% using code-splitting.
- Leveraged Cloudinary and Multer to build a comprehensive assessment module supporting 3+ question types and rich media uploads, which gates automatic certificate generation.
- Developed a secure backend workflow with Puppeteer to generate high-fidelity PDF certificates, achieving 100% visual consistency and adding a public QR code for verification.
- Constructed a low-latency, real-time messaging system using Socket.IO, enabling direct student-instructor communication at under 200ms.

EXTRA CURRICULAR

- Languages:** Fluent in English and Hindi.
- Interests:** Strategic gaming (Valorant) for team communication and logic puzzles (Sudoku) to sharpen deductive reasoning.