

# DIVYANSHU RAJ

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## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Java
- **Frontend Development:** React.js, Redux Toolkit, HTML5, CSS3, Tailwind CSS, Framer Motion, Streamlit
- **Backend & Databases:** Node.js, Express.js, MongoDB, RESTful APIs, Multer
- **Tools & Platforms:** Git, GitHub, JWT, bcrypt, Socket.IO, Postman, Vercel, Render, 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.
- Integrated a real-time messaging feature using Socket.IO for instantaneous private communication, maintaining message delivery latency below 200ms.

### Email Formalizer Pro: AI-Powered Communication Tool

May 2025 – June 2025 | Live Application

Generative AI Web Application

Python, Streamlit, Groq API (LLaMA3-70B)

- Engineered a Generative AI application using Streamlit and Groq API to convert informal text into professional emails, with over 95% contextual accuracy across six distinct tones.
- Optimized API integration and prompt design to ensure sub-second email generation (<1s) with a throughput exceeding 300 tokens/second.
- Enhanced the user experience by implementing key features such as a persistent conversation history and one-click copy and download functionality, improving accessibility and efficiency.
- Deployed the application on Render, utilizing secure, environment-based credential handling to maintain 99.9% uptime and ensure a stable, production-ready environment.

### SharedSlate : Full-Stack E-Learning Platform

June 2025 – July 2025 | Live Application

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.
- Developed a comprehensive assessment module with support for 3+ question types and rich media, utilizing Cloudinary and Multer to enable seamless media uploads and automatic certificate generation.
- Engineered a secure backend workflow with Puppeteer that automated 100% of the manual certificate creation process, reducing issuance time by over 99% and ensuring verification with a public QR code.
- Integrated a Groq AI (LLaMA3) API to provide AI-powered summaries of lesson content, enhancing the student learning experience with a "Key Takeaways" feature.

## EDUCATION

### VIT Bhopal University

Bhopal, India

Bachelor of Technology in Computer Science and Engineering (AI & ML), CGPA: 8.59/10

Expected July 2026

## CERTIFICATIONS

- **Full Stack Development (MERN)** – Certification from SmartBridge & MongoDB [Verify]
- **IBM Certified: Generative AI Using Watsonx** – IBM Career Education [Verify]
- **HTML, CSS, & JavaScript for Web Developers** – Johns Hopkins University (via Coursera) [Verify]

## ACHIEVEMENTS & INTERESTS

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