PANKAJ KUMAR

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EDUCATION

Lakshmi Narain College Of Technology   **2022 – present**
*B.Tech - Computer Science and Engineering - **CGPA: 8.57***   *Bhopal, Madhya Pradesh*

12th STANDARD (Percentage : 83.8)   **Bokaro, JH**
JAC Board , Ranchi   *2021 - 2022*

10th STANDARD (Percentage : 85.8)   **Gomoh, JH**
CBSE Board , Delhi   *2019 - 2020*

PROJECTS

Peer-to-Peer Learning Platform ⧉ | React.js, Node.js, Express.js, MongoDB, Gemini AI   **2025**
- Developed a collaborative e-learning platform with point-based rewards to encourage sharing of academic resources.
- Integrated AI-powered chatbot (Gemini API) and WebSockets for real-time collaboration, improving user engagement.
- Enhanced document preview using pdfjs-dist and implemented plagiarism prevention using cryptographic hashing.
- Built secure RESTful APIs with JWT authentication and efficient MongoDB queries.

AI-Powered Virtual Assistant ⧉ | React.js, Node.js, Gemini AI, Browser Automation   **2025**
- Created a smart assistant that executes user commands like sending emails, searching Google, and playing YouTube videos.
- Enhanced productivity through a responsive chat interface powered by NLP-based command parsing.
- Implemented dynamic task routing to accurately route user instructions to the respective browser actions.
- Ensured seamless user experience by managing asynchronous command execution and real-time response updates.

GreenCart - Grocery E-commerce Platform ⧉ | React.js, Node.js, Express.js, MongoDB   **2025**
- Developed a full-stack grocery e-commerce app covering core shopping flows including product search, user authentication, and secure payments, using a modular code structure.
- Designed an admin dashboard for real-time inventory management, order management, and live pricing updates.
- Implemented user-friendly cart and checkout functionalities with dynamic price calculation and order tracking.

TECHNICAL SKILLS

Languages: Java
Frontend: React.js, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, MongoDB, MySQL, JWT Authentication, Multer, REST API development, AI API Integration (Gemini)
Tools & Platforms: Postman, Vercel, Render, Cloudinary, VS Code
Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS)

ACHIEVEMENTS

- **LeetCode:** Solved 600+ medium-level algorithm problems, showcasing strong problem-solving skills.
- Maintained a 300+ day daily coding streak, demonstrating consistency and dedication.

CERTIFICATIONS

- **DBMS Certification - SpringBoard:** Completed a comprehensive course covering relational database concepts, SQL queries, database design principles, normalization techniques and transaction management.
- **Java Fundamentals - SpringBoard:** Gained hands-on experience with Core Java syntax, OOPs concepts, exception handling and collections framework.