PRINCE KUMAR

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PROFESSIONAL SUMMARY

Full-Stack MERN Developer with practical experience building interactive and responsive web applications. Skilled in JavaScript, React.js, Node.js, Express.js, and MongoDB. Solved 450+ problems in data structures and algorithms. Excited about creating efficient, scalable solutions and working with innovative tech teams.

TECHNICAL SKILLS

Languages: JavaScript, C, C++, Python
Frontend: React.js, HTML5, CSS3, Tailwind CSS, Responsive Design, Framer Motion, Material UI
Backend: Node.js, Express.js, RESTful APIs
Database: MongoDB, MySQL
Tools & Technologies: Git, GitHub, VS Code, Postman, JWT Authentication
Core Skills: Data Structures, Algorithms, Object-Oriented Programming

PROJECTS

AI-Powered Document Analyzer | *MERN, RAG Pipeline, Multer (Memory), JWT, Gemini API*   [GitHub](#) | [Live Link](#)

Description:
- AI-powered document chat platform that allows users to upload PDFs and ask questions in natural language
- Users can manage multiple documents, view chat history, and get instant answers from their files

Technical Details:
- Implemented custom text chunking with overlap (1000/200 tokens) to improve semantic retrieval accuracy
- Generated 768-dim vector embeddings via Gemini API and stored in MongoDB for semantic search
- Built LLM pipeline layer using Gemini 3 Flash to answer questions from document context
- Built TTL-based expiry system for embeddings and chunks to manage storage and reduce database bloat

AI Question Generator | *MERN, Tailwind CSS, JWT, Gemini API*   [GitHub](#) | [Live Link](#)

Description:
- AI interview practice platform with 3 difficulty levels for better technical preparation
- Users can practice daily, save their history, and review past interview sessions easily

Technical Details:
- Used Gemini API to generate questions based on user level and work experience
- Engineered 8+ secure REST APIs using Node.js and Express.js with JWT authentication and bcrypt encryption
- Designed a responsive UI using React.js and Tailwind CSS and improved page load time by 40%
- Optimized MongoDB schema to efficiently store and retrieve user profiles and previous history

EDUCATION

Sagar Institute of Research and Technology   Bhopal, Madhya Pradesh
B.Tech. in Computer Science and Engineering – CGPA: 7.27   *2022 – 2026*

Raja Singh College   Siwan, Bihar
Senior Secondary – Percentage: 69.2%   *2019 – 2021*

ACHIEVEMENTS & CERTIFICATIONS

Problem Solving: Solved 450+ Data Structures and Algorithms problems on LeetCode and GeeksforGeeks, demonstrating strong analytical and coding skills
HackerRank Achievements: Earned Five Star Badge in C++ and certified in JavaScript (Basics and Intermediate) through HackerRank Skill Tests
NPTEL Certification: Earned NPTEL Certification in Python for Data Science