

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, UI Frameworks

Backend: Node.js, Express.js, RESTful APIs

Database: MongoDB, MySQL

Tools & Technologies: Git, GitHub, Postman, JWT Authentication

Core Skills: Data Structures and 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

B.Tech. in Computer Science and Engineering – CGPA: 7.27

Bhopal, Madhya Pradesh

2022 – 2026

Raja Singh College

Senior Secondary – Percentage: 69.2%

Siwan, Bihar

2019 – 2021

ACHIEVEMENTS & CERTIFICATIONS

Problem Solving: Solved 450+ Data Structures and Algorithms problems on LeetCode and GeeksforGeeks

HackerRank Achievement: Earned Five Star Badge in C++

JavaScript Basics: Certified in JavaScript Basics through HackerRank Skill Tests

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JavaScript Intermediate: Certified in JavaScript Intermediate through HackerRank Skill Tests

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NPTEL Certification: Earned NPTEL Certification in Python for Data Science

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