

# Kushagra Juneja

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## ACADEMICS

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**Chitkara University, Rajpura**

B. Tech, Computer Science Engineering

CGPA: 7.35

September 2022 – August 2026

**Coursework:** Operating Systems, Computer Networks, Database Management Systems, Data Structures & Algorithms, Software Configuration Management, System Design, Cloud Computing, Agile Methodologies

## COMPETENCIES

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- **Programming Languages** : Java, C/C++, Python, JavaScript
- **Frontend Technologies** : HTML5, CSS, React.js, Next.js
- **Backend Technologies** : Express.js, Node.js, Prisma ORM, RESTful API
- **Databases** : MySQL, PostgreSQL, MongoDB
- **Tools** : Git, GitHub, Postman, Jira
- **CI/CD** : Jenkins, Docker, Kubernetes, Amazon Web Services

## PROJECTS

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### MediConnect

- Engineered a real-time booking system with REST APIs and Redux, reducing appointment scheduling time by 30%.
- Developed a symptom-based doctor search, improving efficiency by 40% helping users find relevant specialists faster.
- Optimized backend handling 20+ concurrent requests/sec with Express.js.
- Automated deployment workflow using GitHub Actions, reducing deployment time by 50% Netlify.
- Tech Stack: React (frontend), Next.js (SSR), Express.js (backend), PostgreSQL, Prisma ORM (Data Management).
- [medi-connect-k.netlify.app](#)

### CodeCollab

- Designed an online compiler supporting 5+ programming languages, enabling seamless execution.
- Integrated WebSockets for real-time collaboration, reducing latency by 35% in multi-user sessions.
- Enhanced code execution with 20% faster response times and 25% fewer compilation errors via real-time detection.
- Used Docker and GitHub Actions for build, testing, and deployment, reducing deployment time by 40%.
- Tech Stack: React (UI), Express.js (backend), MongoDB (authentication & storage), WebSockets (collaboration).
- [code-collab-sand.vercel.app](#)

### PrepAi

- An AI-powered exam preparation platform that generates and evaluates questions across 10+ subjects.
- Implemented automated answer evaluation, improving grading accuracy by 30% and reducing manual effort.
- Optimized question generation speed by 40% using Gemini API for faster and more accurate content creation.
- Configured deployment workflow using GitHub Actions and Vercel, reducing deployment time by 40%.
- Tech Stack: Next.js, NeonDB, Clerk, Gemini API, Drizzle ORM (database management).
- [prep-ai-tau.vercel.app](#)

## OTHER ACHIEVEMENTS

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- 100+ Data Structures & Algorithms Problems Solved, *LeetCode* ku28
- University Readiness Academy (URA) October 2024 - March 2025
- Introduction to Python, *Coding Ninjas* September 2022 - January 2023
- Workshop on Data Structures & Algorithms, *GeeksforGeeks* March 2024
- Generative AI, *Google Cloud Skills Boost* October 2024