

Piyush Kumar

[Linkedin](#) [Github](#) [LeetCode](#) [Codeforces](#) [Code360](#)

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EDUCATION

- **Indian Institute of Technology, Mandi** Himachal Pradesh, India
B.Tech in Computer Science; CGPA: 8.65 *Aug 2023 - Present*
 - **Relevant Coursework:** Data Structures and Algorithms, Linear Algebra, Design of Algorithms, Mathematical Foundation of Computer Science, Data Science I, II, III

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, C++, HTML, CSS, Typescript
- **Technologies/Frameworks:** React.js, Next.js, Node.js, Express, FastAPI, Tailwind, Bootstrap, REST API, MongoDB, Firebase, Appwrite, Clerk, Expo(React-Native), Shadcn
- **Tools:** VSCode, Linux, Github

PROJECTS

- **RAW - An Organized App for Literary and Writing Community** [Github](#)
TailwindCSS, React.js, Next.js, TypeScript, MongoDB, Shadcn, Socket.io, Clerk
 - **Content Creation Platform:** Developed a dedicated section where users can create and share stories, comics, poetry, and artwork.
 - **Decentralized Collaboration:** Built a decentralized system where users can contribute to stories from popular authors or collaborate within communities, similar to the GitHub model for open-source contributions.
 - **Community Features:** Implemented a community section that allows users to interact, create their own communities, share ideas, and start discussions with others.
 - **Real-Time Chat Integration:** Integrated real-time chat functionality using Socket.io, enabling live communication between users.
 - **Job Collaboration Portal:** Designed a job section for users to connect and collaborate on larger projects, helping them find team members to elevate their creative work to a professional level.
 - **Secure User management:** Implemented Secure User Authentication using Clerk
- **Product Price Tracker - E-Commerce Price Monitoring App** [Github](#)
Next.js, React.js, MongoDB, Bright Data (Proxy), Web Scraping, Cron Jobs
 - **Real-Time Price Discount Tracking:** Developed a web application that scrapes product data from e-commerce websites, enabling users to track product prices and discounts via product links.
 - **Automated Alerts:** Implemented email notifications that alert users whenever tracked products experience price drops, increased discounts, or become available again.
 - **Continuous Monitoring:** Set up cron jobs to continuously monitor product prices and availability, ensuring timely and accurate updates for users.
 - **Web Scraping Proxy Integration:** Used Bright Data for proxy setup to handle web scraping and bypass restrictions, allowing access to live state data for the selected products.
- **GoogleMaxPro and HogRAGger - Intelligent Search and Multi-Document Inference Pipelines** [Github](#)
Python, Open-Source VLMs, HuggingFace Transformers, Web APIs, RAG, NLP
 - **Image-Based Search (GoogleMaxPro):** Developed a pipeline that processes images and user prompts to return visually similar objects or variations, using open-source VLMs and web APIs.
 - **Multi-Document Inference (HogRAGger):** Created a RAG pipeline to answer complex queries by synthesizing information from 2 to 4 documents, leveraging metadata for evidence-based results.
 - **Open-Source Compliance:** Ensured all models and APIs were open-source, adhering to project restrictions while providing real-time search and accurate query resolution.

VOLUNTEERING

- **Core Member:** Kamand Prompt - Programming Club of IIT Mandi
- **Web Developer:** Programming Club
- **Freelancer - Mentor JEE:** Mentor at Physics Wallah