Ayush Keshari

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EDUCATION

- **PDPM IIITDM Jabalpur** — Jabalpur, India
  Bachelor of Technology - Computer Science Engineering; GPA: 7.8 — 2022 - 2026
    - **Courses**: Operating Systems, Data Structures, Analysis Of Algorithms, Database Management Systems, Object Oriented Programming, Computer Networks

- **St. Joseph's Sr. Sec. School** — Sonebhadra, India
  Class XII: 94% — 2019 - 2021

SKILLS SUMMARY

- **Languages**: C, C++, Python, JAVA, JavaScript, SQL, PHP
- **Frameworks**: Express.js, TailwindCSS, React.js, NodeJS, Docker, AWS
- **Tools**: Git, GitHub, VS Code, Excel
- **Soft Skills**: Communication, Problem-Solving Time Management, Leadership

PROJECTS

- **codeArena**: https://github.com/akeshari98/codeTallyV3
    - Created an **online coding platform** for competitive programming, designed to support large-scale user activity with real-time feedback and performance metrics.
    - **Phase 1**: Established a code editor on a NodeJS backend with a ReactJS frontend, securing code compilation using Docker services hosted on AWS EC2. Integrated an S3 bucket to manage large datasets, enhancing user experience and security.
    - **Phase 2**: Extended functionality to support contests, adding a real-time leaderboard for 1,000+ participants. Leveraged the Judge0 API to support 8 programming languages and used BeautifulSoup to automate coding problem extraction from Codeforces, reducing manual effort by 95%.
    - **Phase 3**: Scaled platform for **20,000+ users** by implementing Kubernetes auto-scaling. Added WebSocket support for real-time features like coding rooms and voice chat, increasing user engagement by 25%.

- **IIITDM Jabalpur's Official Website**: https://github.com/akeshari98/IIITDMJ-Website-V2.1
    - Architected a high-performance web platform using NodeJs, PostgreSQL, and ReactJs, ensuring a seamless user experience with optimized rendering and API efficiency.
    - Designed and integrated a fully-responsive, mobile-first UI, leveraging lazy loading to enhance page speed and SEO rankings.
    - Developed an Admin Console Module, enabling dynamic content management without requiring code changes, streamlining website updates and reducing maintenance overhead.
    - Achieved a 95+ Google Lighthouse SEO score and significantly improving the institute's digital outreach.

AWARDS

- **MCM Scholar** — *Aug. 2022 – 2023*
    - Awarded MCM Scholarship for being in the top 10% of the batch.

CODING PROFILES

- **Leetcode**: Max Rating: 1763 (300+ questions) https://leetcode.com/u/akeshari986/
- **Codeforces**: Max Rating: 1255 (150+ questions) https://codeforces.com/profile/ayush_keshari
- **Codechef**: Max Rating: 1626 https://www.codechef.com/users/ayush_keshari

CERTIFICATIONS

- **Ethical Hacking** (Among Top 2%) — *NPTEL Swayam*
- **Computer Graphics**s (Among Top 1%) NPTEL Swayam

EXTRA CURRICULAR

- **The Jagriti Club**: Participated in educating 200+ underprivileged children with Jagriti (NGO at IIITDMJ).
- **The Chess Club**: Active member of the chess club at IIITDMJ.
- **Doubt Solving Tutor**: Tutored over 150 students on the Filo app in a two-month period.