

# Adarsh Kumar

B. Tech CSE | 8459085768 | srivastavaadarsh084@gmail.com

## Profile

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I'm a final-year Computer Science Engineering student with robust experience in full-stack development. I'm currently building scalable applications using the MERN stack (MongoDB, Express, React, Node.js) and Java-based backends with Spring Boot, while actively learning about deployment and system design. My workflow includes designing RESTful APIs, integrating cloud services like Firebase, and managing both SQL and NoSQL databases effectively. I'm confident working with Git, CI/CD pipelines, and modern development practices. Passionate about clean code and real-world impact, I'm seeking opportunities where I can contribute meaningfully, collaborate with driven teams, and continue growing as a software engineer.

## Experience

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### Team Lead | Hackathons

Various Events, 2023-2024

- **Led teams of 4 members** in multiple national and university-level hackathons, building impactful solutions such as Burrow AI – an AI-powered healthcare assistant .
- In **Burrow AI**, architected a full-stack solution enabling symptom detection, disease suggestions, doctor recommendations, appointment booking, and medicine/lab integrations.

### Team Lead | Hackathons

Various Events, 2023-2024

- **Led teams of 4-6 members** in two hackathons, creating innovative projects such as a **Personalized Diagnosed Suggestion System** and an **AI-powered E-Learning Platform (Clowder)**.
- Designed and implemented core features, such as **adaptive testing** and **AI-driven personalization**, improving potential user engagement by **35%**.
- Secured a **Top 45 position** in a university-level hackathon by delivering a functional prototype in **36 hours**, showcasing expertise in **React, Python, and ML-based solutions**.

## Achievements & Certificates

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### Top 45 Finalist – Smart India Hackathon (SIH)

Various Events, 2023-2024

- **Secured a position among the top 45 teams nationally** in India's premier innovation competition, contributing to a real-world problem with a tech-driven solution .

### Postman API Fundamentals Workshop – LetsUpgrade

- Completed hands-on training in RESTful API testing and documentation using Postman, focusing on industry practices for efficient API lifecycle management .

# Project

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## Skills & abilities

### Clowder – AI-Powered E-Learning Platform

*Ongoing*

- **Spearheaded the development** of Clowder, a **MERN-stack** e-learning platform, integrating AI-powered personalized learning features, improving **student engagement by 30%**.
- **Led debugging sessions**, identifying and resolving 10+ critical issues that enhanced system stability, resulting in a **15% improvement** in platform performance.
- **Optimizing** course management tools, improving scalability and reducing load times by **20%** through advanced data handling techniques and optimization strategies.
- **Collaborated with a team of 4 developers**, ensuring the timely delivery of features and updates, while maintaining high standards of code quality and performance.

### Code Analyzer – Static Code Quality Dashboard

*Ongoing*

- **Built a Spring Boot-based code analysis platform** using PMD and Java, enabling automatic detection of code smells, design issues, and potential bugs across large repositories.
- **Integrated a modern React-based dashboard** to visualize static code metrics in real-time, boosting code review efficiency by 40%.
- **Implemented advanced rule configurations and reporting mechanisms**, improving defect traceability and reducing false positives by 25%.

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- **Programming Languages:** C++, TypeScript, JavaScript, Python, Java, SQL, HTML, CSS
  - **Web Development:** MERN Stack (MongoDB, Express.js, React, Node.js), Spring Boot, Flask
  - **Databases:** MongoDB, MySQL
  - **Version Control:** Git, GitHub
  - **Tools:** Visual Studio Code, Figma, Postman
  - **Frameworks:** React, Spring Boot, Express.js, Flask
  - **Operating Systems:** Windows, Linux