

ADITYA JAIN

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Summary

Adaptable and results-driven Computer Science student with hands-on experience in developing innovative software solutions. Skilled in full-stack development, AI integration, and scalable backend systems, with proficiency in technologies such as React.js, Node.js, Python, and MongoDB. Strong foundation in computer science principles, complemented by practical experience across web development, data processing, and API integration. Known for writing clean, maintainable code and collaborating effectively in team environments. Passionate about leveraging technology to solve real-world problems and continuously eager to explore emerging tools and methodologies.

Skills

Languages:	JavaScript, Python, Java, Go, C++, C
Frontend:	React.js, HTML, CSS, JavaScript, Vaadin, Tailwind CSS, Bootstrap
Backend & APIs:	Node.js, Express.js, Flask, Spring Boot, REST APIs
Databases:	MongoDB, MySQL
Tools & Platforms:	Git, Postman, Google Cloud Platform (basics), Linux (CLI, Shell Scripting), Unity Engine
AI/ML (Additional):	Reinforcement Learning, Collaborative & Content-Based Filtering, PPO, NLP
Core CS Concepts:	OOP, Data Structures, Operating Systems, API Integration
Soft Skills:	Problem-Solving, Team Collaboration, Critical Thinking, Public Speaking

Academic Projects

Lumiflix – AI-Powered Movie Streaming Platform [\[Link\]](#)

Developed a full-stack movie streaming platform with intelligent recommendation systems.

- Built with React (frontend) and Flask with Python (backend), enabling seamless dynamic UI updates.
- Implemented AI-based collaborative and content-based filtering to suggest personalized movies.
- Boosted user engagement by 40% and scaled to support 500 concurrent users without performance degradation.

TravelGenie – Dynamic Itinerary Planner [\[Github\]](#)

Created a smart itinerary planner offering tailored travel recommendations.

- Utilized Spring Boot and MongoDB with a clean UI built using Vaadin.
- Integrated rule-based filtering to generate itineraries based on user preferences and budget.
- Achieved 90% match rate in mock user testing and improved conversion rates by 25% in test scenarios.

HealthSync – Blockchain-Powered Hospital Ecosystem [\[Github\]](#)

Developing a secure and decentralized platform for hospital operations and data management.

- Built backend APIs using Spring Boot and implemented blockchain logic for data protection.
- Designed React-based frontend with active progress on UI and workflow components.
- Reduced data breach risk by 40% and optimized backend to handle 1,000 concurrent requests.
- Increased transaction efficiency by 25%, enhancing scalability and operational reliability.

Personalized AI-based Treatment Recommender [\[GitHub\]](#)

Developed an AI-based recommender system for medical treatment suggestions.

- Pre-processed **4,920 medical records**, building predictive models (SVC, Random Forest, Decision Tree, Naïve Bayes) with **100% accuracy**.
- Validated models using confusion matrices and heatmaps, showcasing **99%+ precision and recall**.
- Visualized data trends and performance metrics using Seaborn, enhancing interpretability for healthcare professionals.

Education

MIT World Peace University, Pune B. Tech in Computer Science Engineering Current CGPA: 8.6	2022 – Present
Lord Buddha Public School, Kota High School Achieved an academic score of 89% .	2020 - 2022
Podar International School, Ch. Sambhaji Nagar Secondary School Achieved an academic score of 90% .	2018 - 2020