

Aditya Gupta

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EDUCATION

PSIT College of Higher Education

Kanpur, India

Bachelor of Technology – computer science engineering

2021 - June 2025

Courses: , Data Structures, Algorithms, Networking, Software Engineering,

SKILLS SUMMARY

- **Programming Languages:** C, C++, JavaScript, HTML5, CSS3
- **Frameworks/Tools:** React, GitHub
- **Platforms:** VS Code,
- **Concepts:** Object-Oriented Programming, Problem Solving

PROJECTS

Book Recommender System (Python, Machine Learning):

- Designed and implemented a recommendation engine using K-Nearest Neighbors (KNN) on a dataset of 10,000+ books, applying data structures, algorithms, and model validation
- Achieved 80%+ accuracy in user testing by iteratively refining the model based on feedback, demonstrating a customer value focus and continuous improvement mindset.
- Preprocessed and normalized dataset using feature engineering techniques, implementing Euclidean distance-based clustering for optimal recommendation accuracy.

YouTube Clone (React, YouTube API):

- Architected a full-stack YouTube clone using React.js with component-based architecture, implementing real-time search, video playback, and dynamic content rendering across 50+ test queries and 100+ videos.
- Conducted comprehensive testing of API endpoints and optimized for performance and reliability, enhancing maintainability.
- Implemented state management and component lifecycle optimization, reducing unnecessary re-renders by 40%

Snake Game (HTML, CSS, JavaScript):

- Developed and tested a classic arcade game optimized for cross-device performance.
- Developed responsive UI with CSS Grid and Flexbox, ensuring consistent performance across multiple screen sizes and devices.
- Applied object-oriented programming principles for maintainable and extensible codebase.

COMPETITIVE PROGRAMMING & ACHIEVEMENTS

- Solved 200+ problems on LeetCode focused on algorithms and data structures, emphasizing time and space complexity optimization
- Achieved a 3-star rating on CodeChef with 150+ problems solved, demonstrating proficiency in algorithmic problem solving and competitive programming
- Earned 5-star Problem Solving and 4-star C++ ratings on HackerRank, placing in the global top percentile.

Certifications

- [Database Management Systems \(DBMS\) Certification](#)
- [Problem solving certificate](#)
- [Python](#)

Social and Coding Platforms Links

- [LEETCODE](#)
- [HACKERRANK](#)
- [CODECHEF](#)