

# Aditya Singh

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## Summary

Computer Science student with a strong foundation in Java, React, PHP, and data structures and algorithms. Skilled in full-stack web development with hands-on experience building responsive and scalable applications. Currently enhancing knowledge in machine learning to expand technical capabilities.

## EDUCATION

### Graphic Era Hill University, Dehradun

*Bachelor of Technology in Computer Science and Engineering*

**Expected Graduation: 2026**

*CGPA: 7.78*

### Jingle Bell Academy

*Secondary School*

**Year: 2022**

*12th Grade: 90.3%*

### Jingle Bell Academy

*High School*

**Year: 2020**

*10th Grade: 86.3%*

## TECHNICAL SKILLS

**Programming Languages:** C++, C, Java

**Coding Platforms:** LeetCode, Geek for Geeks

**Tools and Technologies:** HTML, CSS, Tailwind CSS, JavaScript, React.js, Redux-Toolkit, MySQL, PHP, Python, Scikit-learn, Pandas, Matplotlib

**Coursework:** Data Structures and Algorithms, Object-oriented Programming, Database Management System, Operating System, Computer System Architecture

## PROJECTS

### Food Delivery Website (React, Redux Toolkit, Tailwind CSS)

- **Real-Time Data and Cart:** Integrated Swiggy API for live restaurant data, menu items, prices, and dynamic cart management.
- **Custom Hook and Infinite Scrolling:** Created a custom hook to check user online status and enabled infinite scrolling to continuously load more restaurant data as the user scrolls, similar to YouTube's browsing experience.
- **Performance and Responsiveness:** Optimized performance with Vite, achieving a 99 Google Lighthouse score, and built a fully responsive interface with light/dark mode support.

### Travel Management System (HTML, CSS, JavaScript, PHP)

- **Database Design and Optimization:** Designed and optimized a MySQL database to store and manage user data, booking records, and transaction history, ensuring data integrity and scalability.
- **UI/UX Design and Automation:** Implemented user-friendly interfaces and automated travel processes, resulting in a 30% increase in operational efficiency.
- **Security Measures:** Developed robust input validation to ensure secure data handling, preventing 99% of potential database vulnerabilities.

### Stock Prediction using Machine Learning (Python, Scikit-learn, Pandas, Matplotlib)

- **Model Development and Training:** Built a stock price prediction model using Scikit-learn for feature engineering and data preprocessing, achieving over 85% accuracy on test predictions.
- **Data Visualization:** Utilized Pandas and Matplotlib to visualize trends, compare predicted vs. actual prices, and display moving averages to help users interpret data for investment decisions.
- **Forecasting Dashboard:** Developed an interactive forecasting dashboard that enables users to predict stock prices for the next 10-20 business days and visualize future trends in real-time.

## ACHIEVEMENTS

- **Competitive Programming Enthusiast** – Solved 150+ DSA problems on LeetCode, GeeksforGeeks; composed and honed advanced algorithms that improved efficiency in tackling complex problems.
- **Graph-e-thon 2024 – Team Lead and Top 10 Finalist** – Selected among the top 10 teams in Graph-e-thon 2024 for leading a high-performing team and demonstrating effective decision-making, strategic thinking, and full-stack development skills in a competitive hackathon environment.