

Ajay Singh

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Summary

B.Tech Computer Science student with strong expertise in Data Structures and Algorithms. Proficient in problem-solving, algorithmic optimization, and software development. Experienced in Python and machine learning, seeking an SDE role to apply technical skills.

Education

Bachelor of Technology in Computer Science
Noida Institute of Engineering and Technology

2021 – 2025

Senior Secondary Education
Kendriya Vidyalaya – PCM with Computer Science

2019 – 2021

Experience

Artificial Intelligence Intern, Skolar

Aug 2023 – Oct 2023

- * Conducted advanced data preprocessing, feature engineering, and model optimization, improving accuracy by 15%.
 - * Built scalable machine learning models using Python, implementing Decision Trees, Random Forests, and Neural Networks.
 - * Developed and deployed a recommendation system with 90% user satisfaction during testing.
 - * Collaborated with a team to deliver high-quality project outputs on time.
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Projects

Capsool – Full-Stack Pharmacy App (React Native, Spring Boot, MySQL)

- * Designed and developed a full-stack mobile app where customers request medicines, and pharmacies bid in real-time.
- * Built a scalable backend with Spring Boot(Java), implementing JWT authentication and role-based access control.
- * Developed a React Native(Typescript) frontend with Redux Toolkit for state management and real-time UI updates.
- * Implemented real-time bidding using WebSockets, optimizing API performance with JPA and MySQL.
- * Integrated Firebase for push notifications, Google Maps API for tracking, and CI/CD for automated builds.

Personal Finance Management System

- * Technologies: Java, Spring Boot, Thymeleaf, JPA, MySQL, Spring Security
- * Developed a full-stack personal finance management system for tracking income, expenses, and budget goals.
- * Implemented RESTful APIs for managing user transactions, budgets, and financial reports, ensuring scalability and secure data handling.
- * Integrated Spring Security for robust user authentication, and encrypted user credentials using BCrypt.
- * Utilized MySQL for database management, implementing efficient CRUD operations with JPA and Spring Data.

My Portfolio

- * Created a fully responsive and interactive portfolio with React.js and Tailwind CSS.
 - * Incorporated Framer Motion for animations, enhancing user engagement while scrolling.
 - * Integrated live project updates and GitHub contributions to dynamically showcase skills.
 - * Utilized modern design principles to deliver a professional and visually appealing website.
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Technical Skills

Languages: Java, Python, HTML, CSS, JavaScript, Typescript, SQL

Frameworks & Databases: Spring Boot, React native, React Js, Node Js, Tailwind CSS, MongoDB, MySQL

Tools: Git/Github, IntelliJ IDEA, VS Code

Libraries: pandas, NumPy, Matplotlib

Certifications

IBM Skolar: Introduction to Artificial Intelligence, Artificial Intelligence

University of Michigan: Python Basics

IBM: Python for Data Science, AI & Development

Achievements

- * Walmart USA Advanced Software Engineering Virtual Experience Program
- * JPMorgan Chase & Co Software Engineering