

# VISHAKHA AGRAWAL

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## PROFESSIONAL SUMMARY

Ambitious final-year Computer Science student with a strong foundation in software development and a passion for creating innovative solutions. Experienced in web development, data analysis, and automation. Seeking a challenging Software Engineer role to leverage my technical skills and drive impactful results in a dynamic tech environment.

## Education

### Bachelor of technology in Computer Science

August 2025

Acropolis Institute of Technology and Research (CGPA: 7.5)

Indore, Madhya Pradesh

- **Relevant Coursework:** Advanced Python Programming, Web Development, Computer Networks, Database Management Systems, Data Structures and Algorithms

### 12th Board

2020 - 2021

Silver Bells School (CBSE) (CGPA: 8.1)

Indore, Madhya Pradesh

- **Relevant Coursework:** Physics, Chemistry, Mathematics

## Experience

### Web Developer Intern

Feb 2024 - May 2024

Afflux IT Solution Pvt. Ltd.

Indore, Madhya Pradesh

- Utilized Python and Pandas for data manipulation and analysis, processing over 100,000 customer records to derive actionable insights
- Worked in programming languages like Python for data manipulation, analysis, and modeling.
- Collaborated in an Agile team of 6, participating in daily stand-ups, sprint planning, and retrospectives, consistently meeting sprint goals
- Built responsive front-end components using Angular 16, improving user engagement by 30% as measured by increased time-on-page metrics

## Projects

### Wise India – Social Opinion Platform | React.JS, Firebase, Cloud Firestore

- Architected and developed a scalable web application using React.js, enabling real-time voting and opinion sharing on trending news topics
- Implemented user authentication and real-time database operations using Firebase, supporting over 1,000 concurrent users
- Designed database schema in Firestore, resulting in a 60% improvement in query response times
- Leveraged Firebase as the backend infrastructure to handle user authentication, real-time data storage, and efficient data retrieval.

### Automated Stock Trading Bot | (Python, Machine Learning)

- Developed a Python-based stock trading bot using historical data analysis and machine learning algorithms
- Implemented sentiment analysis of financial news using Natural Language Processing (NLP) techniques to inform trading decisions
- Backtested the algorithm on 5 years of historical data, achieving a simulated return 15% higher than market indices

## Technical Skills

**Languages:** Python, C++, JavaScript.

**Technologies:** React.js, Angular 13, HTML5, CSS3, MySQL, MongoDB, Cloud Firestore, AWS (Basic), Firebase, Git, GitHub.

**Concepts:** RESTful APIs, Agile Methodology, Data Structures, Algorithms, Machine Learning (Basic)

## ACHIEVEMENTS & CERTIFICATIONS

**Open Source Contributor:** Hackathon Participant: Secured 2nd place in college-wide hackathon for developing an AI-powered study planner application (2023)

**Hackathon Participant:** Open Source Contributor: Contributed to 3 open-source projects on GitHub, addressing UI bugs and implementing new features.