




Ananya Gupta


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Summary

Computer Science graduate with a strong grasp of Data Structures, Algorithms, Object-Oriented Programming (OOP), and System Design. Proficient in Python, Java, and C++, with hands-on experience in building scalable web applications and working with cloud platforms. Seeking a Software Engineer role in a high-impact, product-driven environment where I can contribute to innovative solutions, collaborate in agile teams, and grow through continuous learning and mentorship.

Educational Qualifications

- Bachelor of Technology in Computer Science and Technology Nov 2022 - Present
 - G.L Bajaj Institute of Technology and Management
 - Relevant Courses: Algorithms, Data Structures, Machine Learning, Data Base Management System
 - Current CGPA: 8.67/10
- Intermediate Education April 2020 - May 2021
 - S.G.S D.A.V Centenary Public School
 - Percentage - 89.4
- High School Education April 2018 - May 2019
 - Swami Ram Chandra Memorial International School
 - Percentage - 93

Skills

- **Programming Language** - C | C++ | Python
- **Web Development** - HTML , CSS , JavaScript
- **Technical Skills** - Strong background in data structure , Algorithm , Database Management System
- **Core Competencies** – Analytical Thinking, Team Collaboration, Strong Communication, Continuous Learning

Projects

AI-Driven Mental Health Companion

- Built an AI-powered mental health chatbot using Python, NLP, and deep learning to simulate empathetic conversations and promote emotional well-being.
- Trained sentiment analysis models with 85%+ accuracy to detect user emotions and recommend personalized coping strategies.
- Enhanced user engagement by 30% through A/B testing and response optimization, improving conversational flow and emotional relevance.
- Integrated modular architecture and scalable backend to support real-time interactions and easy deployment across platforms.

Super Market Management System

- Engineered a supermarket management system in C++ to automate inventory control and real-time sales tracking, increasing operational efficiency and reducing manual errors by 40%.
- Implemented automated billing, stock level monitoring, and sales analytics features, enabling faster transactions and improving daily reporting accuracy by 35%.
- Optimized file handling and persistent data storage using structured I/O operations, reducing data access latency and improving system scalability.
- Designed and developed a user-centric console interface with modular code architecture, enhancing maintainability and improving user experience for store operators.

Certifications

- Advanced C++ Programming – Certified (Udemy)
- Introduction to MongoDB – Certified (MongoDB)
- Smart India Hackathon – National-Level Participant, Software Edition (2024)
- Build With India Hackathon – Participant, Project-Based Innovation Challenge (2025)