ARPITA SRIVASTAVA

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SUMMARY

I'm an enthusiastic Computer Science Engineering candidate at VIT Bhopal, specializing in Health Informatics and passionate about merging technology with healthcare. I've spearheaded innovative projects—from AI diagnostics to full-stack applications—that drive real impact and transform ideas into reality. With a versatile skill set in multiple programming languages and a creative approach to problem-solving, I'm excited to revolutionize tech solutions and make a meaningful difference.

EDUCATION

Vellore Institute of Technology, Bhopal, Madhya Pradesh   Graduation 2026
- *Computer Science Engineering with Specialization in Health Informatics*
- *CGPA: 7.74*

Jayshree Periwal High School, Jaipur, Rajasthan   Diploma 2022
- *12th Boards: secured 82.5% marks, ranked top 100 in the school*
- *Awards: 2nd rank in IEO olympiad by SOF*

TECHNICAL SKILLS

- *Languages:* Python, Java, C, C++, Javascript, Typescript, SQL, HTML, CSS.
- *Tools:* Opencv, Flask, FastAPI, Django, React, Next js, Tailwind Css,MySQL, Firebase, PostgreSQL, Sqlite, MongoDB, Git, Docker, AWS.
- *Skills:* Complex Problem Solving, Strategic Planning, Time Management, Interpersonal Communication

EXPERIENCE

Self Cleaning Glass Case System (Patent), *Lead Innovator*   January 2024 to May 2025
- Engineered an integrated disinfection device within the glass case to sanitize eyeglasses using advanced technology, ensuring a hygienic display environment.
- Designed a programmable disinfection unit that regulates the sanitization process, delivering consistent and reliable cleaning performance.

PROJECTS & LEADERSHIP EXPERIENCE

AI Detection of Breast Cancer and its Prediction, *Lead Developer*   01-08-2023 to 01-04-2024
- Designed an AI-powered breast cancer detection system to differentiate between malignant and benign tumors with high accuracy.
- Implemented multiple machine learning models (Logistic Regression, Random Forest, SVM) and selected the best-performing model based on accuracy, precision, recall, and F1-score.
- Aligned with real-world healthcare applications, improving diagnostic efficiency and accessibility, especially in resource-limited areas.

AI Agent Builder Platform, *Frontend Developer*   07-09-2024 to 07-10-2025
- Developed an innovative web platform enabling users to design, deploy, and manage custom AI agents, streamlining the process of automating business and personal tasks.
- Leveraged a comprehensive tech stack integrating Redux, Firebase, Axios, and Zod to enable dynamic agent configuration, efficient state management, real-time data synchronization, and secure user authentication.

NextGen Data Manager, *Full Stack Developer*   08-01-2025 to 08-03-2025
- Developed a full-stack CRUD application using React, Node.js, and MongoDB to streamline business data management with a highly intuitive user interface and robust backend services.
- Optimized performance through efficient database indexing, query optimization, and responsive design, achieving significant improvements in load times and user engagement.

EXTRACURRICULAR ACTIVITES

Fintech Club VIT Bhopal, *Core Member of Content and Design Team*   January 2023 to Present
- Crafted posters and narratives and delivered key messages and spread awareness regarding finance
- Collaborated closely with other members of the team to align textual content with visual elements.

Dramatics, VIT Bhopal, *Core Member of Management Team*   March 2023
- Secured 5th place in Darpan (Stage Play Competition) at Advitya 2023, VIT Bhopal