

# Arpita

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🌐 Portfolio

in Arpita

🔗 Arpita19

## Education

### B.Tech in Computer Science and Engineering

Dec 2022 – May 2026

Indian Institute of Information Technology, Vadodara

**GPA: 8.69/10**

- **Coursework:** Data Structures & Algorithms, Database Systems, AI, Computer Vision, Networks, System Security

## Technologies

**Languages:** C++, C, Python, JavaScript, SQL, Shell Scripting

**Frameworks:** TensorFlow, PyTorch, OpenCV, NumPy, Pandas, React, Node.js, Express, Flask

**Tools:** Git, Docker, MongoDB, MySQL, Jupyter

**Domains:** AI/ML, Healthcare Tech, Document Processing, Security, System Administration

## Projects

### Document Structure Analysis (Python, TensorFlow, OpenCV)

Oct 2023 – Dec 2023

- Built a deep learning model for document layout detection with 90%+ accuracy.
- Developed a REST API and optimized OCR/NLP pipelines for faster, accurate data extraction.
- **GitHub:** [github.com/Arpita19/document-analysis](https://github.com/Arpita19/document-analysis) 🔗

### Healthcare Management System (Python, PyTorch, Stable-Baselines3, Pandas, NumPy, Scikit-learn, NLTK, Gym)

Aug 2023 – Dec 2023

- Built a reinforcement learning system using PPO for personalized disease diagnosis and treatment recommendations.
- Applied cosine similarity to match medications and suggest precautions based on patient symptoms.
- **GitHub:** [github.com/Arpita19/healthcare-management](https://github.com/Arpita19/healthcare-management) 🔗

## Experience

### Software Developer Intern

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May 2025 – Present

- Assist in developing features, fixing bugs, and optimizing application performance within the software team.
- Support testing and documentation to ensure code quality and consistency.

## Leadership & Activities

### Secretary - Art Club

IIITV-ICD

Aug 2024 - May 2025

- Increased club engagement by 40% through strategic partnerships and improved event visibility.

### Teaching Assistant – Linear Algebra and Matrices

IIITV-ICD

Jan 2025 – May 2025

- Assisted over 100 students by conducting weekly tutorial sessions on core concepts such as vector spaces, eigenvalues, and linear transformations.

### Professional Development

- Completed **Google Cloud Computing Foundations (2023)** with a specialization in cloud architecture and ML deployment. [Google Cloud Skills Profile](#) 🔗
- Completed **Bootcamp Web Development Certification (2025)** covering responsive design and UI components. [View Certificate](#) 🔗