

Pragyan Bhatt

B.Tech in Computer Science and Engineering

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SUMMARY

Pre-final year Computer Science student (CGPA: 8.5) with strong foundations in Data Structures, Algorithms, Operating Systems, Databases, and Networking. Proficient in C++, Python, Java with hands-on experience in system design, cloud platforms (AWS, Oracle Cloud), and version control workflows. AWS Certified Cloud Practitioner with 300+ competitive programming problems solved. Seeking to develop scalable software solutions with an agile learning mindset.

EDUCATION

Bachelor of Technology in Computer Science

Vellore Institute of Technology

2023 – 2027

CGPA: 8.66

- Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Networking, OOP

TECHNICAL SKILLS

- Programming Languages: C++, Python, Java, JavaScript, SQL
- CS Fundamentals: Data Structures, Algorithms, OOP, DBMS, OS, Networking, System Design
- Cloud & DevOps: AWS (Certified), Oracle Cloud (Certified), Docker, Git/GitHub
- Databases: MySQL, PostgreSQL, MongoDB, Firebase, Supabase
- Frameworks & Tools: Flask, FastAPI, OpenCV, LangChain

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF-C02) | Oracle Cloud Infrastructure 2025 Developer Professional
- The Bits and Bytes of Computer Networking (Google) | Hashing, Dictionaries, and Sets in Python

PROJECTS

Crowd Scanner - Real-time Video Analytics

Python, OpenCV, YOLOv8



- Developed system to detect and track people in live video with 92% accuracy using object detection algorithms.
- Optimized performance with GPU acceleration, reducing processing time by 60%. Followed Git workflows for version control.

RAG-Mitra - Document Retrieval System

Python, LangChain, Vector DB



- Built semantic search chatbot using vector embeddings with sub-2-second query response time for 1000+ documents.
- Implemented modular architecture following SOLID principles for maintainability and extensibility.

SentryWallet - Secure Wallet Manager

React.js, Supabase, PostgreSQL



- Designed PostgreSQL database schema for encrypted wallet storage with proper indexing and data integrity constraints.
- Built RESTful APIs with authentication, error handling, and secure session management.

Pothole Detection System

Flask, MySQL, Computer Vision



- Developing Flask backend with MySQL database for real-time pothole detection and analytics dashboard.
- Implementing scalable architecture with RESTful APIs for concurrent request handling.

ACHIEVEMENTS

- Competitive Programming Solved 300+ problems on LeetCode and Codeforces, demonstrating strong algorithmic skills
- Open Source Active contributor to open source platforms with experience in collaborative development workflows

KEY COMPETENCIES

- **Problem-Solving** Strong analytical skills with proactive attitude toward technical challenges
- **Agile Learning** Quick to adapt and master new technologies, frameworks, and development practices
- **Collaboration** Experienced in Git workflows, code reviews, and working effectively in team environments