

# Prathum Bhangadia

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## EDUCATION

### VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering — CGPA: **9.05**

Bhopal, MP

Nov 2022 – Present

### Delhi Public School, Kolar Road (CBSE)

Senior Secondary (XII) – 97.4%; High School (X) – 91%

Bhopal, MP

Mar 2022 & Mar 2020

## TECHNICAL SKILLS

**Languages:** C++, Python, JavaScript , HTML , CSS , SQL

**Frameworks & Libraries:** ReactJS, Tailwind , EJS , Node.js , Express.js

**Databases:** MongoDB, MySQL

**Developer Tools:** Git/GitHub, AWS, Vercel , Postman

**Concepts:** REST APIs , Data Structures , Alogorithms , Authentication(JWT , Clerk)

## PROJECTS

### SmartSpend: Expense Tracker | ReactJS, Chart.js, Tailwind CSS

- Engineered a scalable React interface using Context API, enabling seamless state management for 20+ active users.
- Optimized component architecture and React Hooks, improving application load time by 25%.
- Restructured a mobile-first responsive design with Tailwind CSS, boosting mobile user retention by 30%.
- Integrated Chart.js for interactive data visualizations and ensured persistent transaction storage using LocalStorage with 70%+ uptime.

### SyncRoom: Real-Time Chat Application | MERN, Socket.IO, Context API

- Created a real-time chat system supporting 10+ concurrent users with average message latency under 300ms.
- Reduced component re-renders by 30% by re-architecting state logic using React Context API.
- Built secure backend APIs for authentication and message retrieval using Node.js and Express.
- Initiated one-on-one private chat, increasing user engagement by 10% during testing.

### Project Satya: Fake News Detection | Python, NLP, scikit-learn, Flask

- Implemented a machine learning model achieving 85% accuracy for detecting fake news across real-world datasets.
- Applied advanced NLP preprocessing with TF-IDF vectorization over a corpus of 5,000+ features.
- Trained a Passive Aggressive Classifier achieving a precision score of 0.88 in identifying misinformation.

## CERTIFICATIONS

### Supervised Machine Learning: Regression & Classification — Deeplearning.AI

### AWS Solutions Architect Associate Certification Program — Ethnus

## ACHIEVEMENTS

- Completed certified training in DevOps and Agile methodologies, gaining practical experience with CI/CD pipelines and iterative development workflows.
- Volunteered as a mathematics tutor for specially abled students at Arushi India, improving learner performance during a 15-day education program.

## EXTRA-CURRICULAR

- **Event Management Team Member** — Coordinated national-level university events, including a conference with 1,200+ participants.
- **Hobbies** — Singing, cricket, musical instruments, and mimicry, demonstrating creativity and active participation outside academics.