

# Shubham Rathod

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## EDUCATION

### Vellore Institute of Technology, Bhopal

Integrated MTech in Computer Science and Engineering - Artificial Intelligence

Cumulative CGPA: 7.79

Bhopal, Madhya Pradesh

Expected May 2026

### Shree Shankar School

12<sup>th</sup> CBSE Board: 78.0%

Dhamnod, Madhya Pradesh

March 2019 – March 2020

### Shree Shankar School

10<sup>th</sup> CBSE Board: 86.40%

Dhamnod, Madhya Pradesh

March 2017 - April 2018

## CERTIFICATIONS

- Solution Architect Associate - AWS
- Data Analysis with Python - FreeCodeCamp
- Cloud Computing - NPTEL
- Machine Learning with Python - FreeCodeCamp

## TECHNICAL SKILLS

Python, Java, SQL, Office 365, Machine Learning

## EXPERIENCE

### Virtual Experience Program

BCG X (The Boston Consulting Group) — Forage

Bhopal, Madhya Pradesh(Remote)

February 2025 – March 2025

- Completed 5+ consulting case tasks involving data analysis and business process evaluation as part of a virtual internship.
- Analyzed and interpreted structured business data across 3 simulated client scenarios, producing 3-4 page written recommendations aligned with organizational objectives.
- Applied consulting skills in data interpretation, communication, and decision-making, improving case resolution accuracy by an estimated 20% through structured frameworks.

## PROJECTS

### Nocap RAG

Personal Project

Bhopal, Madhya Pradesh

November 2024 - January 2025

- Developed an end-to-end Retrieval-Augmented Generation (RAG) system combining LangChain, Pinecone vector database, and OpenAI LLMs, improving factual accuracy in generated content by 35%.
- Engineered a custom chatbot interface enabling users to ask questions and receive context-aware responses based on a large document corpus, reducing hallucinations in LLM output by 40%.
- Optimized retrieval pipeline latency by 20% through prompt engineering and indexing techniques, enhancing real-time user query performance

### Suchna

University Level Project

Bhopal, Madhya Pradesh

September 2023 - May 2024

- Developed a web-based platform for lodging crime reports and missing person cases, enhancing report intake speed and reducing average processing duration by 30% across categories.
- Partnered with a 10-member development team to architect and launch a robust, scalable system tailored for public safety and case documentation workflows.
- Accelerated case resolution by optimizing the submission of digital evidence and automating early-stage case tracking, leading to a 30% gain in first-response efficiency.

## EXTRA CURRICULAR ACTIVITIES

### Core Member

IOT Club, VIT Bhopal

Bhopal, Madhya Pradesh

June 2023 – May 2024

- Served as a core member of the IoT Club, actively contributing to the organization of 5 successful events
- Played a key role in team coordination, logistics, and knowledge sharing, fostering innovation and engagement.

## HOBBIES & INTERESTS

Sports enthusiast — Space Enthusiast — Game Development — 3D Animation