

# 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*

### Tagore Public School

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

Jaipur, Rajasthan

## 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

### Potato Disease Classifier using Deep Learning

*Personal Project*

Bhopal, Madhya Pradesh

*September 2024 - October 2024*

- Implemented an AI-driven system to assess sugarcane crop health using advanced machine learning techniques, integrating 4 different models: DenseNet201, CNN, VGG19 and ResNet50.
- Achieved 92% overall accuracy in detecting and classifying crop conditions, including disease, pest infestation, and nutrient deficiencies, by leveraging deep learning architectures.
- Reduced operational costs for farmers by an estimated 30% through accurate early detection of diseases and targeted resource application.
- Collaborated with a team of 10 developers to develop and deploy a scalable AI solution adapted to sugarcane crop and geographic regions.

### 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.

**Social**  
*Shree Shankar school*

Dhamnood, Madhya Pradesh  
*June 2018 – July 2018*

- Led impactful social awareness campaigns during school, reaching over 700 students and a 20% increase in civic engagement and community participation.

HOBBIES & INTERESTS

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