Shubham Rathod

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EDUCATION

Vellore Institute of Technology, Bhopal — Bhopal, Madhya Pradesh
Integrated MTech in Computer Science and Engineering - Artificial Intelligence — *Expected May 2026*
Cumulative CGPA: 7.79

Shree Shankar School — Dhamnod, Madhya Pradesh
12th CBSE Board: 78.0% — *March 2019 – March 2020*

Tagore Public School — Jaipur, Rajasthan
10th CBSE Board: 86.40%

CERTIFICATIONS

- Solution Architect associate - AWS
- Cloud Computing - NPTEL
- Data analysis with python - Freecodecamp
- Machine learning with python - Freecodecamp

TECHNICAL SKILLS

Python, Java, SQL, Office 365, Machine Learning

EXPERIENCE

Virtual Experience Program — Bhopal, Madhya Pradesh(Remote)
BCG X (The Boston Consulting Group) — Forage — *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 — Bhopal, Madhya Pradesh
Personal Project — *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 — Bhopal, Madhya Pradesh
University Level Project — *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 — Bhopal, Madhya Pradesh
IOT Club, VIT Bhopal — *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