

# SHUBHAM RATHOD

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## EDUCATION

**Vellore Institute of Technology ,Bhopal**  
*Integrated Mtech AI - 7.79*

**Aug 2021 – Aug 2026**  
*Bhopal, Madhya Pradesh*

**Shree Shankar School**  
*Class 12th - 78.0% ,Class 10th - 86.40%*

**Mar 2017 – Mar 2020**  
*Dhamnod, Madhya Pradesh*

## Technical Skills

- Machine Learning, Python, React, SQL, Gen AI

## PROJECTS

**NoCap RAG** | Personal project

**Feb 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** | Personal project

**Sep 2024**

- Built a full-stack web app to detect diseases in potato plants using leaf images, using CNN to achieve 95% accuracy with a processing time of 5 sec per image.
- Designed an intuitive React-based interface that enabled seamless plant image submissions, enhancing user experience and accelerating disease prediction turnaround by 30%.
- Deployed the model using TensorFlow Serving and FastAPI, resulting in a processing efficiency of under 5 seconds per image while maintaining high-performance accuracy rates. [Download](#)

**Suchna** | Team Project

**May 2024**

- Developed a web application for reporting crime incidents and missing persons, resulting quicker submission of reports that reduced the average processing time by 30% across all case categories.
- Enabled faster identification and tracking of missing persons and crime incidents by streamlining evidence submission and case management, contributing to a 30% improvement in initial response times.

## Virtual INTERNSHIP

**BCG X Name**

**Feb 2025 – Mar 2025**

*Data analyst intern*

- 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.

## CERTIFICATIONS

Data Analysis with Python - FreeCodeCamp

Machine Learning with Python - FreeCodeCamp

AWS Solutions Architect Associate

Cloud Computing - NPTEL

## EXTRACURRICULAR

**IOT Club**

**Jun 2023 – May 2024**

*Core Member*

*Bhopal, Madhya Pradesh*

- 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.