

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
- AWS Solutions Architect Associate

- Machine Learning with Python - FreeCodeCamp
- 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.