SHUBHAM RATHOD

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EDUCATION

Vellore Institute of Technology ,Bhopal   **Aug 2021 − Aug 2026**
Integrated Mtech AI - 7.79   *Bhopal, Madhya Pradesh*

Shree Shankar School   **Mar 2017 − Mar 2020**
Class 12th - 78.0% ,Class 10th - 86.40%   *Dhamnod, Madhya Pradesh*

Technical Skills

- ML, Python, PyTorch, Agentic Workflows, React,SQL,RAG pipelines

PROJECTS

Agent AI coding assistant ⬀ | Personal Project   **Ongoing**

- Developing an AI-powered coding tool using RAG % (Retrieval-Augmented Generation) to reduce hallucinations by 45% % through context-aware retrieval.
- Optimizing LLM prompts using the ReAct framework, % achieving 92% error-resolution accuracy in early user testing.
- Building a hybrid search pipeline with ChromaDB, % indexing 500+ code snippets and improving suggestion relevance by 35% % (measured via precision@k=3) to enhance real-time code generation accuracy.

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

Virtual INTERNSHIP

BCG X ⬀   **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.