Shubham Rathod

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EDUCATION

Vellore Institute of Technology, Bhopal   Bhopal, Madhya Pradesh
Integrated MTech in Artificial Intelligence   *August 2021 – August 2026*
Cumulative CGPA: 7.79

Shree Shankar School   Dhamnod, Madhya Pradesh
Class 12 - 78.00%, Class 10 - 86.40%   *March 2017 – March 2020*

TECHNICAL SKILLS

Programming: Python, SQL, Machine Learning, Retrieval Augmented Generation(RAG), NLP, Agentic Workflows

Frameworks: PyTorch, Tensorflow, LangChain,Neural Networks

Tools: Git, VS Code, Jupyter, FastAPI, OpenAI API,

CERTIFICATIONS

AWS Solutions Architect Associate   —   Data Analysis with Python - FreeCodeCamp

Cloud Computing - NPTEL   —   Machine Learning with Python - FreeCodeCamp

CO-CURRICULAR EXPERIENCE

AI Trainer (Freelance)   Bhopal, Madhya Pradesh (Remote)
DataAnnotations Tech   *October 2024 - December 2024*

- Executed 700+ test cases to evaluate Large Language Models across NLP tasks including content generation, data extraction, and coding assistance.
- Completed 500+ hours of prompt engineering and annotation work, improving model accuracy by 25% and reducing hallucinations through data analysis.
- Performed multilingual evaluations in English and Hindi using five performance parameters, collaborating with teams to document findings and refine model metrics.

PROJECTS

AI-Powered Dynamic Dashboard Generator   Bhopal, Madhya Pradesh
Personal Project   *May 2025 – June 2025*

- Designed dashboard generation system using GPT-4 and LangChain to analyze database schemas and generate SQL queries, reducing creation time from 7 days to 3 minutes.
- Created natural language processing pipeline with SQLDatabase Toolkit, Streamlit, and Pandas to convert English queries into SQL statements for non-technical users.
- Implemented data visualization platform with chart recommendation engine and query validation, processing multiple chart types and improving decision-making speed by 90%.

Student Career Path recommender agent   Bhopal, Madhya Pradesh
Personal Project   *April 2025 – May 2025*

- Developed AI-powered career counseling platform serving students through conversational interface that processes 15+ data points (interests, strengths, academic preferences) to generate 3-4 personalized career recommendations with education pathways
- Delivered full-stack web application using React, TypeScript, and Python with Hugging Face API integration, achieving responsive design across 3 device types (desktop, tablet, mobile) and maintaining 100% uptime through fallback logic systems
- Engineered intelligent conversation flow that prevents repetitive questioning loops, tracks 5 conversation states (greeting, gathering, clarifying, recommending, discussing), and extracts student profile data automatically from natural language input

Crypto Tweet Tracker   Bhopal, Madhya Pradesh
Personal Project   *March 2025 – April 2025*

- - Built real-time monitoring tool using Twitter API v2 and Tweepy to track cryptocurrency mentions by verified influencers, maintaining 99% uptime.
- - Implemented JSON-based caching mechanism to reduce API calls by 40% while maintaining high data throughput for social media data processing.
- - Created keyword detection algorithm for cryptocurrency terms like Bitcoin and Dogecoin with 15-minute interval checks, processing over 100 tweets per hour.

EXTRACURRICULAR

Core Member   Bhopal, Madhya Pradesh
IoT Club, VIT Bhopal   *June 2023 – May 2024*

- Organized 5 campus events attracting over 200 attendees focused on Internet of Things awareness and technical skill development among engineering students.
- Coordinated with student teams on project management initiatives, developing leadership abilities through collaborative experiences.