

Vishal Mondal

AI Engineer

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🌐 github.com/vishal48-tech 🔗 vishal48-tech.github.io/portfolio

SUMMARY

AI Engineer building real-world intelligent systems. Designed and developed AI agents that reason, remember, and act — with a focus on practical, deployable solutions. Worked across the full stack, from backend logic to user interfaces, and bring a product-focused mindset to every project. Looking for opportunities in agentic AI, intelligent automation, and AI product engineering.

SKILLS

Programming — Python, SQL

AI & Machine Learning — Machine Learning, Deep Learning, NLP, Computer Vision, Data Science, Large Language Models (LLMs), Generative AI, Agentic AI, RAG, Prompt Engineering, Transfer Learning, Model Optimization, Fine-tuning (QLoRA/LoRA), LLM Evaluation

Frameworks & Libraries — PyTorch, TensorFlow, HuggingFace Transformers, LangChain, LangGraph, LangSmith, OpenCV, scikit-learn, pandas, numpy, ChromaDB (vectordb), Streamlit, FastAPI, REST APIs, Groq API, Openrouter API

Agentic Systems — Multi-agent workflows, ReAct, Reflexion, Tree of Thought, Plan & Execute, RAG pipelines, Agentic Engineering, Tool Use & Function Calling, Memory Systems

Tools & Environments — Git, GitHub, VS Code, Jupyter Notebook, Docker, MySQL, Model Deployment

Soft skills — Problem Solving, Analytical Thinking, Communication, Collaboration, Adaptability, Continuous Learning

EDUCATION

Data Science with Generative AI 08/2025 – 06/2026
P.W. Skills Ahmedabad

Diploma in Computer Engineering 10/2020 – 07/2023
R.C. Technical Institute Ahmedabad

PROJECTS

Fitness AI Agent [🔗](#)

- Implementing Streamlit, LangGraph, DuckDuckGo, Jina, Groq, LangSmith, ChromaDB, Supabase.
- Engages users in conversational coaching, remembers past interactions and preferences, logs workout history, and provides tailored fitness recommendations.
- Solves the problem of generic fitness advice by offering a personalized, memory-driven coaching experience that adapts to each user over time.

Content Research Orchestrator [🔗](#)

- Implemented LangGraph, DuckDuckGo, Jina, Groq, OpenRouter, LangSmith.
- Orchestrates agents to perform web searches, extract and parse article content, and generate a comprehensive report with clear citations.
- Saves hours of manual research for journalists, content creators, and analysts by delivering a structured, Markdown-ready output with all sources.