Detailed About Vishal Rewaskar Section (For Chatbot/RAG/Prompt Use)

About Vishal Rewaskar

Vishal Rewaskar is an AI Engineer specializing in Generative AI, Large Language Models (LLMs), RAG systems, agentic AI frameworks, and end-to-end applied AI development. His core belief is simple: AI should minimize human effort, automate complexity, and make advanced technology accessible to everyone. His work centers on building production-ready, real-world AI systems that think, analyze, and act like autonomous problem-solvers.

Technical Expertise

Core AI & ML Skills:

• Machine Learning, Deep Learning, Neural Networks

• Generative AI, LLM-based applications, NLP, Prompt Engineering

• Conversational AI, RAG pipelines, vector search, embeddings

• Agentic AI (CrewAI, LangGraph), tool-calling, multi-agent workflows

Programming & Libraries:

• Python (primary language)

• PyTorch, TensorFlow, Keras

• Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

• Hugging Face Transformers, OpenAI API, Groq API

• LangChain, FastAPI, Flask, Streamlit

• MLflow, DVC, TensorBoard, Jupyter

• NLTK, Faiss, ChromaDB, PostgreSQL, MongoDB Atlas

DevOps & Deployment:

• Docker, AWS Elastic Beanstalk, Git/GitHub

• Building containerized ML/AI applications

• Deploying full-stack AI tools with sub-second inference latencies

Project Experience (Real-World, Hands-On)

1. AI Search Agent (LangChain + Groq + Multi-Source Search)

• Intelligent search agent integrating Wikipedia, ArXiv, and DuckDuckGo.

• ZERO-SHOT-REACT agent with multi-tool orchestration.

• Streaming responses using Streamlit Callback Handler.

• Agentic reasoning and multi-source research workflow.

2. Coder Buddy — Autonomous Code-Generation Agent System

• Multi-agent autonomous system built using LangGraph.

• Generates full multi-file projects autonomously (HTML/CSS/JS/Python).

• Tool-calling + ReAct-based architecture for iterative coding.

• Sandboxed execution + Pydantic state management.

3. NoBroker AI Assistant — RAG Real Estate Chatbot

• Built contextual real-estate chatbot using LangChain + FAISS.

• History-aware retrieval using Hugging Face embeddings.

• Contextual property search + follow-up question generation.

• Smooth UX with session memory and message history.

4. Student Performance Prediction (Ridge Regression + Docker)

• Full ML pipeline comparing 9 regression algorithms.

• Achieved 88% R^2; Dockerized Flask API for fast inference.

5. Customer Churn Prediction (ANN + Streamlit)

• Neural-network based churn prediction with 86.5% accuracy.

• Sub-200ms inference via Streamlit UI.

• TensorBoard monitoring for training visualization.

6. Fashion MNIST Classifier (PyTorch)

• CNN achieving 92.5% accuracy with overfitting reduction.

Professional Interests & Motivation

Vishal is passionate about:

- Building AI that reduces human workload

- Transforming repetitive tasks into automated workflows

- Multi-agent systems and LLM tool-calling

- Retrieval-Augmented Reasoning (RAG)

- Intelligent search/chat systems

- AI assistants that deliver real business value

His long-term vision is to build intelligent, high-impact AI systems that create measurable value for users and businesses.

Education

- B.E. Electronics & Telecommunication Engineering — Wadia College of Engineering, Pune (2023–2026)

- Diploma in Computer Engineering — Government Polytechnic Pune (2021–2023)

Certifications

- Academy Accreditation – Generative AI Fundamentals

- Complete DS/ML/DL/NLP Bootcamp

- Generative AI with LangChain & HuggingFace – KrishAI Technologies

Soft Skills & Strengths

- Strong analytical thinking

- Excellent problem-solving ability

- Practical, execution-focused mindset

- Quick learner & self-motivated

- Clear communication & documentation

- Passion for simple, efficient, business-friendly AI

Career Objective

Vishal is seeking AI Engineer / Applied AI Engineer internships where he can:

• Build production-grade AI systems

• Work with LLMs, agentic AI, RAG pipelines

• Solve business problems using AI

• Create scalable, meaningful products

His interests align strongly with companies building high-impact AI solutions, especially those focused on affordability, automation, and real-world value.