

Vivek Sharma

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EDUCATION

MCC, University of Mumbai

BSc in Information Technology; CGPA: 7.37

Mumbai, India

2022 – 2025

GVM College

High School (HSC Science); 65%

Mumbai, India

2020 – 2022

PROJECTS

MedVec-Scratch | Python, PyTorch, BPE Tokenizer, HuggingFace, Transformers

[Project Link]

- Engineered medical sentence embedding model from scratch with Siamese Transformer architecture (4 encoder blocks, 256-dim embeddings, 4-head multi-head attention, 1024-dim FFN, mean pooling) using custom BPE tokenizer (30k vocab, 128 max seq length), trained on 233k medical triplets (anchor-positive-negative) with Triplet Margin Loss for semantic similarity learning, enabling clinical document retrieval, medical literature search, and symptom-diagnosis matching in healthcare applications.

Federal Registry RAG Agentic System | Python, Groq LLM, MySQL, Streamlit, Asyncio

[Project Link]

- Developed full-stack RAG system for US Federal Registry queries with Groq LLM, async pipelines, MySQL backend, and agentic tool calling architecture for real-time document retrieval.

Student Performance Analysis and Prediction | Python, Scikit-learn, XGBoost, Plotly

[Project Link]

- Built Streamlit dashboard for academic performance prediction using XGBoost with role-based access, trend analysis, and MongoDB backend for SGPA forecasting.

EXPERIENCE

Anvex AI Technologies Private Limited

Jr. Software Engineer Machine Learning

September 2025 – Present

Mumbai, India

- Built RAG system for AnvexSpeak, a telephony AI platform using Twilio/Plivo with multi-source data extraction (client databases, Google Drive, web scraping), BAAI/bge-large-en-v1.5 embeddings, and advanced filtering.
- Created custom LLM wrapper supporting open-source (Gemma3, Qwen, Mistral, Llama) and closed-source models (OpenAI) using LangChain/LangGraph; deployed with Qdrant (production) and ChromaDB (development) for real-time document-grounded responses.

Anvex AI Technologies Private Limited

Machine Learning Intern

June 2025 – August 2025

Mumbai, India

- Developed AVA, a RAG-powered policy chatbot using LangChain/LangGraph for query routing, Qdrant vector store, and SambaNova Llama-4 across 26+ policies with FastAPI endpoints achieving 800-1500ms response time and confidence scoring.

Techathon

Mulund College of Commerce

February 2025

Mumbai, India

- Built and trained machine learning models to predict equipment failures using sensor data, historical maintenance records, feature engineering, hyperparameter tuning, and integrated into backend using FastAPI for real-time predictive maintenance.

OPEN SOURCE CONTRIBUTION

Universal-Box

Contributor (Data Science Template)

2024

- Developed and added Data Science template with starter configurations for Jupyter, pandas, scikit-learn, structured workflows, and example notebooks, collaborating with maintainers to align with best practices.

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks: PyTorch, TensorFlow, Flask, FastAPI, LangChain, LangGraph

Developer Tools: Docker, Linux, Git, GitHub, VS Code, Jupyter Lab, PyCharm

Libraries: Scikit-learn, pandas, NumPy, Matplotlib, Seaborn, Plotly

Vector Databases: Qdrant, ChromaDB