

Narendra Tekale

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Summary

Machine Learning and Generative AI fresher with strong skills in Python, SQL, NLP, and LLM-based application development. Experienced in building end-to-end ML pipelines using Scikit-learn, PyTorch, TensorFlow, LangChain, and LangGraph, and deploying models through FastAPI and Flask. Detail-oriented problem solver with strong teamwork and communication skills

Internship Experience

Machine Learning Intern — NV Analytical Solutions Jan 2025 – Apr 2025 Pune, India

Domain: Applied ML, Data Analytics, LLMs

- Designed and trained NLP chatbot using LangChain and open-source LLMs to answer natural-language data queries.
- Preprocessed large-scale HCES data (10K+ records) using Pandas and built analysis dashboards in Looker Studio.
- Boosted chatbot response accuracy by 30% via prompt optimization and intent-based logic.

Key Projects

RAG-Based YouTube Chatbot

Live Demo

Tech Stack: Python, LangChain, LLMs, Vector Databases (FAISS/Chroma), NLP

- Built a Retrieval-Augmented Generation (RAG) chatbot to answer user queries based on YouTube video transcripts and content.
- Implemented document ingestion, text chunking, embedding generation, and semantic retrieval using LangChain pipelines.

QuoraTwin – Duplicate Question Detection using NLP

Tech Stack: Python, NLP, Scikit-learn / Deep Learning, Word Embeddings

- Performed text preprocessing including tokenization, stop-word removal, and normalization to improve model performance.
- Utilized word embeddings and semantic similarity techniques to capture contextual meaning between question pairs.
- Trained and evaluated ML models to predict semantic similarity and classify duplicate questions accurately.

Skills

Languages: Python, SQL, Java

AIML Frameworks : Scikit-learn, TensorFlow, PyTorch, NLP, LangChain, LangGraph, LangSmith

API Development Backend : Flask, FastAPI

Visualization & Reporting: Power BI, Google Looker Studio,

Deployment & Tools: Git, GitHub, Docker

Education

Savitribai Phule Pune University

Pune, Nov 2022 – 2026

BE in Artificial Intelligence and Machine Learning

Jawahar Navodaya Vidyalaya

Parbhani, July 2015 – 2022

Class 6th to 12th [CBSE]