

Parth Patil

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EDUCATION

Rachana Vidyalaya

Primary and Higher Education

Maharashtra, India

Aug. 2010 – May 2020

savitribai phule pune university

B.Tech in Computer Science, Minor in Business

Maharashtra, India

Aug. 2022 – May 2026

PROJECTS

Restaurant-Feedback-Analysis | Python, Streamlit, MySQL, Ollama

April 2025

- Developed an AI-powered restaurant feedback analysis dashboard using Streamlit for the frontend and Python for backend logic.
- Utilized Ollama model and CrewAI with MySQL databases to create intelligent AI agents capable of real-time feedback analysis, including data extraction, question-answer mapping, sentiment analysis, and synthesis of insights.
- Visualized restaurant feedback data, overall satisfaction rates, response distributions, and detailed question-wise analysis using Plotly for interactive charts.

Ramayana Text Analysis | HuggingFace Pipeline, Python, Data Visualization, Pandas, Numpy

May 2025

- Developed a Natural Language Processing (NLP) pipeline for comprehensive text analysis of the Valmiki Ramayana, focusing on extracting, embedding, and verifying textual information.
- Scraped and prepared data from valmikiramayana.net to create a structured dataset of shlokas and their English translations across all Kandas.
- Implemented sentence embeddings using sentence-transformers (all-MiniLM-L6-v2) to convert text into dense vector representations, enabling semantic similarity comparisons.
- Integrated via HuggingFace and transformers pipeline, for statement verification (TRUE/FALSE/NONE)

RAGVeda | Python, Neo4j Graph Database, LLM, langchain

January 2025

- Developed a Retrieval-Augmented Generation (RAG) system that leverages graph databases and Large Language Models (LLMs) to enable intelligent document processing and natural language question-answering.
- Designed and implemented Knowledge Graph Integration using Neo4j, focusing on entity relationship modeling and graph-based information retrieval for robust data organization and querying.
- Enabled Natural Language Question Answering by processing user queries, retrieving context from the Neo4j graph, and generating context-aware responses using the Groq LLM (mixtral-8x7b-32768).
- Established a Document Processing Flow that includes automatic document chunking, entity extraction, relationship mapping, and population of the Neo4j graph database.

HACKATHONS & COMPETITIONS

The IYD Hackathon 2025

April 2025 – June 2025

The Yoga Vivek Group

Virtual

- Developed an AI-powered text analysis pipeline using Python and Hugging Face's google/flan-t5-large LLM to extract, embed, and verify textual information from the Valmiki Ramayana.
- Created a structured dataset by scraping shlokas and translations from valmikiramayana.net, preparing data for in-depth NLP analysis

TECHNICAL SKILLS

Languages Python, SQL (MySQL), JavaScript, HTML/CSS

Frameworks: Streamlit, CrewAI, CrewAI, Hugging Face Transformers

Developer Tools: GitHub, Git, VS Code, Visual Studio, jupyter notebook

Libraries: pandas, NumPy, Matplotlib, plotly, nltk, transformers, langchain