


Rohit Mukati

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PROFESSIONAL SUMMARY

DPassionate about AI and Machine Learning, I am a computer science student skilled in Python, MySQL, and scripting. Experienced in Generative AI, NLP, and LangChain, with hands-on expertise in data processing, feature engineering, and building machine learning models. Eager to design scalable systems and implement impactful AI solutions.

Education

Vikrant Institute of Technology and Management

Bachelor of Technology, Information Technology and Engineering
Specialization in **AIML**

Indore, MP

2021 - 2025

Technical Skills

Languages and Tools	: Python, SQL(MySQL), Java, GitHub.
Mathematics for ML & DL	: Statistics, Probability, Matrices
Libraries & Frameworks	: Numpy, Pandas, Matplotlib, Seaborn, Nltk, Sk-Learn, TensorFlow, Keras, Flask.
Generative Ai	: LangChain, LlamaIndex, Rag, HuggingFace(transformer), Fine-tuning, Vector DB, LLM.
ML & Deep Learning	: Data Collection, Data Preprocessing, Feature Engineering, Regression, Classification Clustering, Ensemble Learning, ANN, CNN, RNN, NLP, words embedding.

Experience

VRadicals India PVT LTD: AI/ML intern

Indore, MP

Oct 2024-Dec 2024

- Integrated OpenAI API for voice interaction using TTS/STT technologies.
- Implemented advanced NLP techniques using GPT-3.5 Turbo to create a conversational AI that supports dynamic, context-aware dialogue.

Projects

Movies Recommendation System 

- Developed an end-to-end content-based movie recommender system using a Kaggle dataset of 5000 movies.
- Conducted extensive data preprocessing and feature engineering, creating tags for each movie and transforming them into vectors and features using the **Bag of Words** techniques. Leveraged **cosine similarity** to measure the likeness between movies and recommend the top 5 movies. Used libraries such as NumPy, Pandas, Scikit-Learn, NLTK, and Streamlit to streamline the recommender system's functionality and user interface.

Text Summarization NLP 

- Developed an end-to-end text summarization system with a fully structured pipeline using the Hugging Face Samsum dataset
- Conducted experiments and implemented final versions for data ingestion, validation, and transformation processes.
- Performed Word Embeddings during model building, followed by fine-tuning Hugging Face transformers to generate accurate, concise summaries.
- Built a prediction pipeline and a user-friendly app for seamless interaction and summary generation.

Medical ChatBot 

- Built an AI-powered medical chatbot utilizing **LangChain** and a **RAG** (Retrieval-Augmented Generation) pipeline for accurate healthcare responses.
- Parsed medical documents of 700 pages using PyPDF Loader, converted them into chunks, and generated **vector embeddings** with Hugging Face models.
- Integrated Pinecone vector database to store, manage, and retrieve embeddings efficiently for real-time responses.
- Combined embedding retrieval with **OpenAI's** LLM, enabling context-aware and dynamic medical query resolutions.

Strengths

Problem-solving

Adaptability

Analytical

Curious

Fast Learner

Achievements & Certifications

- Earned a Badge of completion for the Open-Access Data Science Virtual Experience Program - [BCG](#)
- Data Science Virtual Experience Programme Certification - [British Airways](#)