


Rohit Mukati

 rohanmukati2002@gmail.com

 [LinkedIn](#)

 [Github](#)

 +91 6261903064

 Indore, India

PROFESSIONAL SUMMARY

Driven by a passion for AI and Machine Learning, I am a computer science student proficient in Python, MySQL, and scripting. I am Experienced in Generative AI, Natural Language Processing (NLP), and LangChain frameworks, with hands-on expertise in data processing, feature engineering, and building machine learning models. I am eager to apply my AI skills to design scalable systems and implement machine learning pipelines for impactful results.

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, Data Visualization, Linear and Logistic regression, KNN, Decision Tree, Random forest, SVM and K Means , Neural Networks, Natural Language Processing, words embeddings.

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 Samsun 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](#)