MOHD ZAID

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PROFESSIONAL SUMMARY

Innovative AI/ML enthusiast with hands-on experience in Generative AI, Agentic AI, and Machine Learning. Skilled in building RAG pipelines, multi-agent systems, and conversational chatbots using LangChain, LangGraph, LangSmith, FastAPI, and vector databases. Strong foundation in core ML, NLP, and MLOps, with practical knowledge of model deployment, Docker, MLflow, DVC, and cloud platforms (AWS/GCP/Azure). Adept at problem-solving, rapid prototyping, and developing production-ready AI pipelines, seeking a fresher role in AI/ML to contribute to cutting-edge projects.

SKILLS & ABILITIES

Generative AI & Agentic AI

- ✓ AI Agents, Multi-Agent Systems, Conversational Chatbots
- ✓ LangChain, LangGraph, LangSmith, Hugging Face Transformers
- ✓ Retrieval-Augmented Generation (RAG), Vector Databases (Pinecone, FAISS, Chroma, Weaviate)
- ✓ LLM Integration, Contextual Memory, Knowledge Graphs
- ✓ Prompt Engineering, Prompt Optimization, Fine-tuning LLMs, Model Evaluation
- ✓ Large Language Models (LLMs), OpenAI API, Hugging Face API
- ✓ NLP Pipelines, Text Embeddings, Semantic Search
- ✓ RAG Pipelines, Vector Search,Embedding Models
- ✓ Model Context Protocol (MCP) for managing contextual state and improving model interactions in multi-turn conversations

Core Machine Learning & Data Science

- ✓ Supervised Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Gradient Boosting
- ✓ Unsupervised Learning: K-Means, DBSCAN, PCA, Clustering, Dimensionality Reduction
- ✓ Deep Learning Basics: Feedforward Neural Networks, CNNs, RNN/LSTM, Transformers
- ✓ NLP & Text Analytics: Tokenization, Text Classification, Sentiment Analysis, Named Entity Recognition, Feature Extraction
- ✓ Model Evaluation: Accuracy, F1-score, Precision, Recall, ROC-AUC, Confusion Matrix
- ✓ Statistical Analysis, Hypothesis Testing, Correlation Analysis

Data Engineering & Pipelines

- ✓ Data Cleaning, Preprocessing, Feature Engineering, Data Transformation
- ✓ ETL Pipelines, Data Wrangling, Missing Value Handling, Outlier Detection
- ✓ SQL (JOIN, GROUP BY, Window Functions), NoSQL (MongoDB), Data Storage & Retrieval
- ✓ Data Versioning, Dataset Management, Batch & Streaming Data Processing

MLOps & Deployment

- ✓ Model Versioning & Experiment Tracking: MLflow, DVC, Weights & Biases
- ✓ Containerization: Docker, Kubernetes
- ✓ Deployment: FastAPI, Flask, Streamlit, REST API (basic)
- ✓ Cloud Deployment: AWS, GCP, Azure (Compute, Storage, Serverless)
- ✓ CI/CD for ML Workflows, Model Monitoring, Model Registry, Production-Ready Pipelines

Framework, Libraries & Tools

- ✓ Python (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn)
- ✓ Hugging Face Transformers, PyTorch (familiarity), TensorFlow (familiarity)
- ✓ Git, GitHub, Jupyter Notebook, VS Code
- ✓ Data Visualization: Tableau, Power BI (optional)
- ✓ API Development & Microservices Architecture, OpenAI API (conceptual knowledge)
- ✓ FastAPI, Flask, Streamlit

Other Relevant Skills

- ✓ Problem-Solving, Analytical Thinking, Critical Thinking
- ✓ Agile Methodology, Collaboration, Teamwork
- ✓ Research & Rapid Prototyping, Proof-of-Concept (POC) Development
- ✓ Cloud-Based AI Solutions, End-to-End AI Pipelines

MY PROJECTS

➢ **AI Chatbot with Token-by-Token Streaming:**

Description: Developed an interactive AI chatbot capable of streaming responses token-by-token for enhanced user experience. Implemented conversation memory to maintain context across multiple turns and designed a custom dialogue flow using LangGraph with HuggingFace LLMs. Integrated real-time streaming in Streamlit with session-based memory management for multi-turn conversations.

Tools & Technologies: Python, Streamlit, LangGraph, LangChain, HuggingFace LLMs, MemorySaver, TypedDict, Session State

➢ **Q&A System on YouTube Video:**

Description: Built an AI chatbot to answer queries based on YouTube video content using LangChain, RAG, FAISS, and LLMs. Implemented text loading, splitting, embedding, and retrieval for accurate context-based responses.

Technologies Used: Langchain, RAG,text loader splitter, embedding, text retrivel, LLM,Streamlit,FAISS

➢ **TalentLens By NLP:**

Description: TalentLens is a smart resume analysis tool built using **Streamlit** . It helps users by analyzing uploaded resumes, extracting key details like skills and experience, and recommending suitable career fields, skills to improve, and relevant online courses. It also provides a resume score and improvement tips. An admin dashboard is included for data visualization and report generation.

Technologies Used: NLP, PyPDF2, Streamlit, spyCy/re, MySQL.

➢ **Movie Recommendation System:**

Description: Developed a movie recommendation system that suggests movies to users based on their viewing history and preferences

Technologies Used: Pandas, NumPy, Scikit-learn, Flask, HTML, CSS, (It generated by using the concept of Countvectorizer and KNN.

EDUCATION

2021-2025	**Bachelor of technology** In Computer Sciences	**College** RIT,Roorkee	**CGPA** 7.2