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**Objective**

Passionate and results-driven AI Engineer with a strong foundation in Generative AI, NLP, and Deep Learning. Adept at developing and deploying AI solutions using LLMs, RAG, and Fine-tuned models. Seeking an opportunity to contribute and grow in an innovative AI-driven organization.

**Education**

**Bachelor of Technology (B.Tech) in Computer Science & Engineering**  
XYZ University, India | 2023

**Skills**

* **Programming:** Python, TensorFlow, PyTorch, Hugging Face, LangChain
* **AI/ML:** Generative AI, LLMs (GPT, BERT, T5, BART), RAG, Fine-Tuning, Transfer Learning
* **NLP:** Tokenization, Named Entity Recognition (NER), Text Summarization, Sentiment Analysis
* **Data Engineering:** Apache Spark, Hadoop, MongoDB, PostgreSQL, Kafka, Apache Flink
* **Cloud & Deployment:** AWS, GCP, Docker, Kubernetes, FastAPI, Streamlit
* **MLOps & Vector Search:** MLflow, Pinecone, FAISS, Weaviate, Elasticsearch

**Real-Time Projects**

**1. Generative AI-Powered Resume Builder**

* Developed an AI-powered resume generator using **fine-tuned GPT-3.5/T5** models.
* Implemented **custom prompts** and **embedding-based retrieval (RAG)** to generate domain-specific resumes.
* Deployed using **FastAPI & Streamlit** on **AWS Lambda** for scalability.
* Used **Pinecone Vector DB** to enhance similarity-based retrieval of past resumes.

**2. AI-Powered Search Engine using Multi-Modal RAG**

* Built a **multi-modal retrieval-augmented generation (RAG) search engine** using **LangChain and FAISS**.
* Implemented **text and image embeddings** using OpenAI's CLIP and OpenAI embeddings.
* Designed a **real-time query pipeline** using **Apache Kafka & Spark Streaming**.
* Indexed data in **Elasticsearch** for efficient vector search and retrieval.

**3. AI Personal Assistant using LLMs**

* Designed an **LLM-based AI Assistant** that integrates **real-time document retrieval, task automation, and voice interactions**.
* Implemented **Function Calling APIs** with **GPT-4 & LangChain** to dynamically fetch information.
* Deployed on **GCP Cloud Run** with **vector search using FAISS and MongoDB**.
* Integrated **speech-to-text (Whisper) and text-to-speech (TTS) for conversational interactions**.

**4. Real-Time Fraud Detection System**

* Developed an **AI-driven fraud detection system** using **Confluent Kafka (cloud-managed), Databricks for Spark Streaming, and MongoDB**.
* Implemented **anomaly detection algorithms** using **Isolation Forest & LSTMs** to detect fraudulent transactions.
* Deployed a **real-time fraud alert pipeline** on **AWS Lambda & SNS** for immediate notifications.

**Certifications**

* **Deep Learning Specialization – Coursera (Andrew Ng)**
* **Generative AI with Large Language Models – DeepLearning.AI**
* **AWS Machine Learning Specialty Certification (AWS-MLS)**

**Internships & Experience**

**AI Research Intern – ABC AI Labs, Bangalore *(Jan 2023 – June 2023)***

* Researched and implemented **fine-tuning techniques for LLMs using LoRA and PEFT**.
* Built a **question-answering chatbot** using **RAG and vector search** with **FAISS & Pinecone**.
* Contributed to **open-source AI projects on GitHub** related to Generative AI.

**Data Science Intern – XYZ Analytics, Hyderabad *(June 2022 – Dec 2022)***

* Worked on **customer behavior analysis using NLP-based sentiment analysis**.
* Deployed **Kafka-based real-time streaming data pipelines** for e-commerce insights.

**Academic Projects**

* **Text Summarization System using Fine-tuned BART/T5** – Optimized for long document summarization.
* **Conversational AI Bot using OpenAI GPT-4 API** – Built a chatbot with **memory and context awareness**.
* **Stock Price Prediction using Time Series Models** – Used **LSTMs & Transformers** to predict market trends.

**Achievements**

* **Won 1st place** in a **Hackathon on AI-powered Resume Parsing (IIT Bombay, 2023)**
* Published a research paper on **RAG for Document Retrieval** in an **IEEE Conference (2023)**
* **Top 5%** in **Kaggle NLP Competitions** for sentiment analysis and text classification.