HARI SANKARA KOTESWARA LAL KELUTH

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SUMMARY

AI/ML Engineer with hands-on experience in **LLM fine-tuning**, **RAG-based chatbots**, and **MLOps pipelines**. Skilled in **PyTorch**, **Hugging Face Transformers**, **AWS**, and scalable **NLP solutions**. Proven ability to build production-grade AI systems with efficient inference, model optimization (LoRA, quantization), and automated CI/CD workflows.

EDUCATION

University of North Texas,

MS in Computer and Information Science, GPA: 3.5/4.0

Aug 2023 – May 2025

VR Siddhartha Engineering College

BTech in Computer Science Engineering, GPA: 3.4/4.0

July 2019 - July 2023

PROFESSIONAL EXPERIENCE

AI/ML Intern | InfoDinamica Inc | Hybrid (USA/Remote)

Jun 2025 – Present

- Developed and deployed RAG pipelines using LangChain, FAISS, OpenAI GPT-4, and Google Gemini to power semantic search, document reasoning, and AI-driven responses.
- Fine-tuned LLMs with PyTorch and Hugging Face Transformers, improving response accuracy and document classification for production AI workflows.
- Built Flask APIs and integrated with Firebase Firestore and Google Cloud Run to deliver real-time AI services like summarization, entity extraction, and PDF Q&A.

Machine Learning Engineer | Cadential Technologies Pvt Ltd | India

Jan 2022 - Jul 2023

- Built a scalable fuzzy matching system using PySpark and Elasticsearch with Jaro-Winkler logic to process 6.4M records, enhancing data quality and consistency through a master data management framework.
- Designed and deployed machine learning models for real-time predictions using Python, TensorFlow, PyTorch, and Scikitlearn, supporting dynamic inference pipelines and boosting operational decision-making efficiency.
- Engineered NLP-driven search and recommendation systems using BERT, GPT, and Hugging Face Transformers, increasing semantic match accuracy by 35% and enhancing user experience across large-scale queries.
- Developed deep learning pipelines for image and text classification using CNNs, RNNs, and attention mechanisms, enabling scalable training and deployment for high-accuracy computer vision and language tasks.
- Implemented full MLOps deployment of ML models using Docker, Kubernetes, and CI/CD pipelines on AWS; conducted A/B testing and tuning to enhance model robustness and production performance.

AWS Cloud Intern | AICTE | India

Oct 2021 - Dec 2021

- Optimized scalable ETL workflows using AWS Glue, S3, Redshift, and Lambda, significantly improving data ingestion speed, transformation accuracy, and reducing pipeline latency across large-scale distributed environments.
- Built and deployed machine learning models using AWS SageMaker, AutoML, and EC2; designed end-to-end cloud pipelines with AWS Data Pipeline, Athena, and DynamoDB to enable efficient training and real-time data access.

Projects

Fine-Tuning LLaMA 2 on Custom Dataset (LLaMA 2, LoRA, BitsAndBytes, Hugging Face, NLP, PyTorch, Transformers)

- Fine-tuned LLaMA 2 (7B) using LoRA with 4-bit quantization to optimize memory and performance, enabling accurate Q&A responses on domain-specific wildfire datasets.
- Developed an inference pipeline by merging LoRA weights with LLaMA 2, leveraging Hugging Face Trainer and tokenizer to enhance contextual language understanding.

ChatPDF using Retrieval Augmented Generation (RAG) (GPT-3.5, FAISS, Hugging Face, OpenAI, NLP)

- Developed an AI-powered PDF chatbot using RAG architecture for contextual search and semantic content extraction, enabling accurate question-answering on unstructured documents.
- Leveraged FAISS for vector indexing and GPT-3.5 Turbo for response generation, enhancing retrieval precision and language understanding in document-centric queries.

Technical Skills

- Machine Learning & AI: Deep Learning, NLP, Computer Vision, LLMs (GPT-4, Gemini, LLaMA, Hugging Face Transformers), RAG, LangChain, FAISS, PyTorch, TensorFlow, Scikit-learn, LLM Fine-Tuning (LoRA, PEFT, Quantization).
- Data Engineering & Big Data: SQL, MongoDB, Snowflake, ETL, Data Pipelines, PySpark
- Cloud & MLOps: AWS (Glue, Redshift, SageMaker, Lambda, EC2), GCP, CI/CD, Kubernetes, Docker, MLflow, DVC
- **Software Development**: Python, Java, C, Flask, FastAPI, React.js, Node.js, REST APIs
- Data Analytics & Optimization: Tableau, Power BI, Feature Engineering, A/B Testing, Model Evaluation & Tuning

Certifications- Google Professional ML Engineer | AWS Solutions Architect - Associate | AWS Cloud Foundations