Deekshith N

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Professional Summary

Adaptable and results-driven AI/ML professional with expertise in software development, data science, and natural language processing. Skilled in building end-to-end intelligent systems—from data analysis and model development to scalable deployment—while balancing technical depth, research mindset, and business impact.

Education

B.Tech in Artificial Intelligence and Machine Learning **GPA: 8.8 / 10**
M S Ramaiah University of Applied Sciences(2026) *Bengaluru*

Projects

SGD Classifier for UN-SDGs | *Scrapy, Pandas, TF-IDF, Transformers, Seaborn* **Github**

- **Scraped 100+ Indian startup websites** to curate a structured dataset for SDG classification.
- Engineered a hybrid NLP pipeline (TF-IDF + LinearSVC + distillBERT), **boosting Jaccard score by 7%.**
- Visualized SDG trends and co-occurrence patterns to identify investment-ready impact startups.

AI-Powered DevOps Auto-Remediator | *Python, LangGraph, Gemini LLM, MongoDB* **Github**

- Built an AI-powered auto-remediation agent enabling intelligent **triage and classification of DevOps alerts.**
- Automated incident management workflows by integrating **Slack and PagerDuty APIs** for real-time notifications.
- Designed dynamic remediation playbooks with MongoDB storage and fallback mechanisms, reducing manual intervention.

DocuQuery – Privacy-First Document Intelligence System | *LangChain, FAISS, Ollama, RAG, Streamlit* **Github**

- Architected end-to-end **RAG pipeline** with **hybrid search** (FAISS semantic + BM25 keyword + cross-encoder reranking), achieving **20-30% precision improvement** for multi-format documents (PDF, DOCX, CSV).
- Engineered scalable vector storage using **FAISS with IVF indexing** and sentence-transformers (384-dim embeddings), enabling **sub-second queries on 50K+ documents** with optional GPU-free deployment via optimized CPU batching.
- Integrated **local LLM inference (Ollama: Phi-3, Llama3)** with streaming responses and prompt engineering to ground answers in retrieved context, eliminating cloud API costs while ensuring **100% data privacy**.
- Built production-ready system with async document processing **(60% faster ingestion)**, Docker Compose deployment, SQLite metadata management.

Spotify Data Analysis & BERT Recommendations | *Python, pandas, PyTorch, HuggingFace Transformers* **Github**

- Developed a comprehensive analysis system for Spotify listening history using Python and pandas.
- Implemented a **BERT-based recommendation system** for similar track suggestions using PyTorch.
- Created **interactive visualizations** of listening patterns and user behavior insights.
- Built an engagement prediction model with three-level classification **(Low, Medium, High).**
- Utilized HuggingFace Transformers for generating track embeddings and similarity matching.

Technical Works and Certifications | *Kaggle*

- Worked on over **20+ datasets** using statistical tools, extracting key insights and patterns.
- Developed interpretable ML projects to explain complex features, prioritizing transparency beyond predictions.
- **Data Science Professional Certificate – Coursera**
- **DBMS with SQL – Coursera**

Languages, Skills & Interests

- **Languages & Technologies:** Python, R, Java, SQL, Flask, Scrapy, PyTorch, Transformers, pandas, Scikit-learn, Git.
- **Skills & Interests:** Data Analysis, Communication, Problem Solving, Machine Learning, Software Development, LLMs.