LESLIE K

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SUMMARY

Senior Python Developer with 5+ years of experience building AI-powered solutions in NLP, Generative AI, and machine learning. Adept at developing scalable Python applications, training/evaluating AI models, and delivering high-quality code in fast-paced environments. Proven ability to reason through complex problems, work with US-based clients, and communicate insights clearly through code and documentation.

KEY SKILLS

- **Languages:** Python (advanced), SQL , **AI/ML:** HuggingFace Transformers, PyTorch, scikit-learn, TensorFlow
- **AI Domains:** NLP, NLU, LLM Evaluation, Retrieval-Augmented Generation (RAG), Generative AI, ML Computer Vision
- **Tools:** Jupyter, Git, Docker, AWS SageMaker, VSCode, **Data Analysis:** pandas, NumPy, matplotlib, seaborn
- **Testing & QA:** Pytest, unittest, Test Planning, **Other:** FastAPI, Flask, REST APIs, LangChain, Pinecone

PROFESSIONAL EXPERIENCE

Upwork   **Remote (US Clients via Upwork)**
Freelance Senior Python & AI Developer   Feb 2022 -Present
- Delivered production-ready AI systems and Python applications for clients in education, customer service, and healthcare.
- Wrote high-quality, explainable code in Jupyter notebooks for training and evaluating NLP models (e.g., sentiment classifiers, Q&A bots).
- Implemented robust evaluation pipelines for ranking LLM outputs using structured metrics and rationales.
- Integrated LLMs (GPT-4, Claude, Gemini) via APIs for chatbot development; tuned prompts and model settings for optimized performance.
- Designed modular Python services with proper testing coverage and documentation..

Northstar Lab   **Lagos**
Machine Learning Intern   Jun 2021 – Dec2 021
- Supported the development and testing of AI/NLU components for voice and chatbot applications using Python.
- Assisted in improving intent classification and entity recognition systems by analyzing training data and evaluating model outputs.
- Automated quality checks and performed detailed error analysis to enhance response accuracy and reliability.

PROJECTS

AI News Summarizer
- Built and fine-tuned a T5-based summarization model using Python and HuggingFace to generate concise news digests. Automated data scraping and deployed the solution via FastAPI on AWS. Conducted code reviews to improve efficiency and maintainability.

Hybrid RAG Chatbot
- Led development of a customer support chatbot combining dense (Pinecone) and keyword (BM25) retrieval with GPT-4. Improved response accuracy and speed through code optimization, custom evaluation pipelines, and collaborative review of retrieval and generation logic..

EDUCATION

BSc in Electrical Engineering   **2021**
Obafemi Awolowo University