Sofi Altamsh Shah *NLP Engineer*

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Professional Summary

NLP/LLM Engineer with over 1 year of experience in building and deploying LLM pipelines using LangChain, RAG and Hugging Face. Specialized in semantic search, generative text systems with production deployments in EdTech. Reduced response time in QnA systems by 92% and drove 23% uplift in hiring decisions.

Experience

Natural Language Processing Engineer, *Masai* 07/2025 – Present | Bengaluru

- Designed & built multi-stage RAG + AI-agent pipelines in LangChain to extract intent, retrieve context, and generate validated responses for support tickets.

Machine Learning Engineer, *Masai* 01/2025 – 07/2025 | Bengaluru

- Built a RAG-based answering system reducing query time by **92% (≤3.2s)** and improved student hiring rate by **23%** through a CTC prediction model.
- Trained and deployed ML/DL models in production, analyzed trends and built dashboards.

Data Research Analyst, *Masai* 04/2024 – 01/2025 | Bengaluru

- Built data pipelines and analyzed data from (LinkedIn, Naukri, Instahyre), delivering insights that improved placement rates by **15%**.

Data Science Intern, *1Stop.ai* 06/2022 – 11/2022 | Bengaluru

- Trained predictive models for house-loan value achieving more than **90% accuracy**, enhanced performance using **PCA**, and built insight dashboards with clustering visualizations.

Technical Skills

Machine Learning: Regression, Clustering, PCA, XGBoost, Feature Engineering, Hyperparameter Tuning

Deep Learning: CNN, RNN, GANS, Transformers (RoBERTa, T5, GPT), LoRA

MLOps: Streamlit, Flask, HDFS, AWS Lambda, Vector Databases (FAISS), MySQL, MongoDB

NLP & LLMs: Text2Text, RAG, TF-IDF, Word2Vec, NLTK, NER, Hugging Face, LangChain

Visualization: Power BI, Matplotlib, Seaborn, Excel, Metabase

Libraries & Frameworks: NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, SciPy, OpenCV, OCR

Projects

Fake News Detection Using Multi-Modal Learning

- Built a hybrid multimodal model (RoBERTa + CNN) for fake news detection, achieving **88.7% accuracy** on a 10K+ sample dataset using PyTorch & Hugging Face.

Face Mask Detection System

- Built a real-time image-processing system using TensorFlow & OpenCV, trained on 1,500+ images (**94.6% accuracy**) using TensorFlow, Keras, and OpenCV.

Education

B.Tech in Computer Science Engineering (8.1 CGPA), 2019 – 2023
Government College of Engineering, Aurangabad