Mara Ng'ang'a — NLP Engineer

Years of Experience: 7
None in Electrical Engineering

MARA NG'ANG'A
NLP ENGINEER
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SUMMARY
Seasoned NLP Engineer with 7 years of experience blending a hardware■software foundation with state■of■the■art language models. Proven track record in deploying robust, multilingual NLP solutions for global e■commerce and fintech platforms, while continually improving model accuracy and inference efficiency.

SKILLS
Natural Language Processing, Transformer Models, PyTorch, TensorFlow, Python, Docker, Kubernetes, AWS SageMaker, Data Pipeline Engineering, Model Optimization, Git

EXPERIENCE

- Designed and optimized firmware for IoT sensor nodes, ensuring low power consumption and sub■millisecond latency.
- Collaborated with hardware teams to integrate real■time data streams into edge devices.
- Developed automated bootloading pipelines and performed field■test debugging using JTAG and SWD interfaces.

- Engineered RESTful APIs for real■time data ingestion and model inference services.
- Implemented end■to■end machine■learning pipelines, leveraging Docker containers and CI/CD workflows.
- Ensured secure data handling and compliance with GDPR by integrating tokenization and access■control mechanisms.

- Built scalable pipelines for large■scale language data processing using Apache Kafka and Spark.
- Fine■tuned transformer architectures (BERT, RoBERTa) for multilingual intent classification and entity extraction.
- Reduced model inference latency by 30% through quantization, pruning, and batch■optimization techniques.

- Designed and deployed transformer■based chatbots that support 12 languages with over 99% coverage.
- Increased entity extraction accuracy by 15% by integrating contextual embeddings and custom post■processing rules.
- Integrated models into production pipelines on AWS SageMaker, monitoring drift with SageMaker Model Monitor and adjusting retraining schedules.

EDUCATION

High School Diploma - Electrical Engineering
Technical College of Nairobi, Nairobi, Kenya - 2015

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