Lionel Jores Nyangon Boyomo

Senior AI / ML Engineer



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SUMMARY

Senior AI Engineer with 9 years of experience designing, developing, and deploying artificial intelligence and machine learning solutions. Strong background in Generative AI, large language models, natural language processing, deep learning, and predictive analytics. Experienced in building scalable AI services, integrating machine learning models into enterprise applications, and managing the complete AI development lifecycle. Skilled in Python, PyTorch, TensorFlow, cloud platforms, and production AI deployment.

SKILLS

Programming
Python, SQL, JavaScript

Deep Learning
PyTorch, TensorFlow, Neural Networks, Model Optimization

Natural Language Processing
NLP, Text Classification, Sentiment Analysis, Embeddings

Backend Development
FastAPI, Flask, REST APIs

Cloud & DevOps
AWS, Azure, Docker, Kubernetes, Git, CI/CD

Machine Learning
Scikit-learn, XGBoost, Regression, Classification, Predictive Modeling

Generative AI
LLMs, RAG, LangChain, Hugging Face, Prompt Engineering

Computer Vision
OpenCV, Image Classification, Object Detection

Databases
PostgreSQL, MongoDB, Redis, Vector Databases

Data Engineering
Pandas, NumPy, Apache Spark, Data Processing

PROFESSIONAL EXPERIENCE

nybl

Senior AI Engineer 01/2023 – Present | Dubai, United Arab Emirates

- Design and develop production-ready AI and machine learning solutions for enterprise applications.
- Build intelligent systems using Python, PyTorch, TensorFlow, and modern machine learning frameworks.
- Develop Generative AI applications using large language models, prompt engineering, and retrieval-augmented generation (RAG).
- Implement NLP pipelines for document processing, semantic search, text analysis, and information extraction.
- Build scalable AI backend services and REST APIs using FastAPI and Flask.
- Optimize model performance, inference efficiency, and deployment workflows for production environments.
- Integrate AI services with enterprise databases, cloud platforms, and existing business applications.

- Apply model evaluation, monitoring, and testing practices to improve reliability and maintainability.
- Collaborate with software engineers, data teams, and product stakeholders to deliver AI-powered features.
- Contribute to technical architecture, code reviews, documentation, and engineering best practices.

AI / Machine Learning Engineer 12/2019 – 12/2022 | Dubai, United Arab Emirates

- Developed and maintained machine learning models for prediction, classification, and business analytics.
- Prepared structured and unstructured datasets through data cleaning, transformation, and feature engineering.
- Implemented deep learning and NLP solutions using Python, TensorFlow, and Scikit-learn.
- Built predictive analytics workflows to identify trends and support data-driven business decisions.
- Integrated trained models into backend applications through REST APIs and Flask services.
- Evaluated model performance using accuracy, precision, recall, F1-score, and other relevant metrics.
- Worked with development teams to integrate AI capabilities into existing software platforms.
- Improved model reliability through experimentation, validation, and performance optimization.

Software Engineer / Junior Machine Learning Engineer 11/2017 – 11/2019 | Dubai, United Arab Emirates

- Developed backend application features using Python and SQL.
- Assisted in building data processing scripts and automation workflows.
- Supported the development and testing of early machine learning models.
- Created database queries and data preparation routines for analytics applications.
- Integrated third-party APIs and supported application troubleshooting.
- Participated in code reviews, testing, documentation, and Agile development activities.

PROJECTS

Enterprise AI Knowledge Assistant 02/2025 – 11/2025

LLM-powered document search and question-answering platform

- Developed an AI-powered assistant to retrieve information from enterprise documents.
- Implemented a RAG pipeline to provide context-aware answers from internal knowledge sources.
- Integrated LLM APIs, document embeddings, and vector search.
- Built backend services for document ingestion, retrieval, and response generation.

Predictive Business Intelligence Platform 03/2023 – 12/2024

Machine learning system for forecasting and business insights

- Developed machine learning models to forecast business trends and identify patterns in historical data.
- Performed data preparation, feature engineering, and model evaluation.
- Built prediction APIs for integration with business applications.
- Created automated data processing workflows.

Intelligent Document Processing System 01/2021 – 10/2022

Automated document classification and information extraction

- Developed NLP workflows to classify documents and extract relevant information.
- Implemented text preprocessing and classification models.
- Integrated document processing services with backend applications.
- Evaluated model performance and improved classification workflows.

EDUCATION

Bachelor of Science in Computer Science 09/2013 – 06/2017 | Al Ain, United Arab Emirates

United Arab Emirates University (UAEU)