Habeeb Olawale HAMMED

DATA SCIENTIST|NLP ENGINEER

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PROFESSIONAL SUMMARY

Creative and results-oriented NLP/Generative AI Engineer with a proven track record in designing and deploying cutting-edge models for text, image, and video generation. Strong expertise in LLMs, GANs, VAEs, and pose-to-video synthesis, complemented by a deep understanding of cloud-based ML engineering and scalable pipelines. Experienced across the full AI lifecycle—from ideation and research to model training, optimization, and production deployment. Known for solving complex problems through efficient, ethical, and innovative AI solutions.

WORK EXPERIENCE

Machine Learning Intern - (Generative AI- Video Synthesis)
Body.Scratch, Netherlands
May 2025 - Present

- Architecting state-of-the-art deep learning models (LSTMs, GCNs) to understand and generate complex human movements from video data, a foundational task for creative AI applications.
- Developing robust data engineering pipelines to process and prepare large-scale video datasets for model training and fine-tuning.
- Designing a generative system that synthesizes smooth, beat-synced video transitions using pose estimation and motion interpolation.
- Leveraging models like AnimateDiff, ControlNet, and EverybodyDanceNow for realistic video generation from pose sequences.

NLP Research Intern – Centre INRIA d'Université
Côte d'Azur, Sophia Antipolis
May 2024 – Sep 2024

- Engineered an NLP pipeline using Large Language Models (LLMs) for cancer treatment recommendations, increasing data extraction efficiency by 40%.
- Optimized a Document Layout Analysis framework using state-of-the- art models like Mixtral 8X7b, improving extraction accuracy by 30% from complex medical documents.
- Designed and evaluated a Retrieval-Augmented Generation (RAG) system, integrating FAISS indexing and sentence embeddings, achieving 85% precision and 90% recall in document classification.

Technologies Used: Pytorch, LLMs, RAG, PyMuPDF, NetworkX, PyMuPDF & Hugging Face

Data Scientist Intern – ACRI-ST, Sophia Antipolis
Jan 2024 - Mar 2024

- Collaborated with a cross-functional team to developed an automated classification system for 100,000 labeled satellite images, leveraging pretrained deep learning models, improving classification accuracy by 25%.
- Refactored satellite data processing workflows by leveraging transfer learning, reducing processing time by 35%.
- Implemented memory-efficient methods for large-scale datasets, ensuring seamless integration and analysis of high-resolution satellite imagery, enhancing efficiency by 20%.

Technologies Used: Python, TensorFlow, Keras, Scikit-learn, pretrained CNNs (VGG), cloud-based data handling tools.

EDUCATION

MSc Data Science and Artificial Intelligence

Université Côte d'Azur, Nice, France (Sep 2023 – Present)
Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Generative AI Computer Vision, Statistical Learning and MLOps.

BSc Statistics,

University of Ibadan, Oyo State, Nigeria
(2016 – Feb 2020)
Relevant Coursework: Probability Theory, Regression Analysis, Statistical Inference, Data Structures, Statistical Modeling and Time-series analysis.

SKILLS

Programming: Python (OOP), SQL & R
Machine Learning: Predictive modeling, Supervised and unsupervised learning, Explainable AI and Bayesian Modelling.
Generative AI: GPT, GANs, VAEs, Diffusion Models (AnimateDiff), Retrieval-Augmented Generation, Video Synthesis, Motion Transfer, Beat Synchronization, Prompt Engineering, Few-Shot Learning, AI Ethics
Natural Language Processing (NLP): Text preprocessing, sentiment analysis, embeddings (Word2Vec, BERT), prompt engineering & RAG systems.
Software Development: Git, API Development, Data Engineering Pipelines, Kubernetes.
MLOps & Cloud Deployment: Google Cloud (Vertex AI), AWS, Azure, Docker, CI/CD pipelines.
Visualization: Tableau & Power BI
Soft Skills: Adaptive Problem-Solving | Data-Driven Decision Making | Agile Collaboration | Analytical Thinking | Communication & Presentation.

CERTIFICATIONS

- Machine Learning Engineer Professional Certificate Google, 2024
- Machine Learning Specialization Stanford University 2023
- Deep Learning Specializations DeepLearning.AI Coursera, 2023
- IBM Data Science Professional Certification IBM, 2023
- Google Data Analytics Professional Certifications Google, 2022

LANGUAGE

English - Fluent
French - intermediate (actively improving)