Nyasha Masamba

Data Sci | AI Eng | Research

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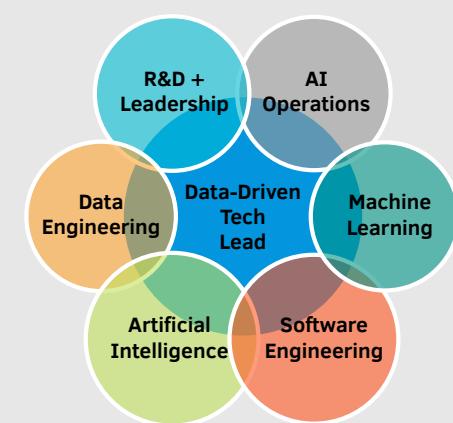
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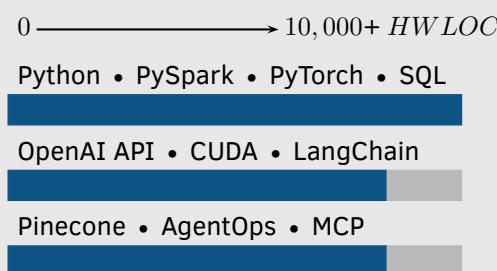
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Skills

Overview

Programming

$$0 \longrightarrow 10,000+ \; HW \, LOC$$

Python • PySpark • PyTorch • SQL

OpenAI API • CUDA • LangChain

Pinecone • AgentOps • MCP

Recent Projects

Multi-Agent Insurance Claim Autorep (MAICA)

- Multi-agent capstone project for Google AI Agents Intensive bootcamp.
- Designed using Google ADK; comprising 6 base agents + 2 orchestrator agents for optimal motor insurance claim processing.

biologik.ai

- Cancer incidence reduction platform leveraging bioinformatics, ML, and GenAI to predict cancer risk.
- biologik.ai is poised to help change the paradigm of digital health from treatment to prevention, potentially

Summary

- 8+ years applied machine learning + AI research and engineering.
- 4 years hands-on leadership experience (technical and people/multi-team).
- End-to-end tactical and strategic expertise - from stakeholder engagement and project planning, to model serving and post-deployment monitoring with support.

Experience

Jun 2024 - Present — **Principal AI Engineer** — Codeblock Labs

- **Technical leadership and implementation** of projects at the intersection of agentic AI, healthcare and financial services.
- **Objective definition, strategic road-mapping and collaborating with subject matter experts** to architect domain-specific models.
- Ensuring adherence to changing AI regulatory landscape, alongside observing **data/model compliance and governance** protocols.
- Highlights: Building and managing software and data/ML/AI teams toward **delivering scalable business value** through enterprise-grade tools such as **Google Vertex AI, AWS Bedrock**.

May 2022 - May 2024 — **Lead Data Scientist** — AXA UK

- Ideated, developed and productionised **predictive models** served at scale for Retail and Commercial insurance claims use-cases, while adhering to **MLOps** and Agile development best practices.
- Heavily utilised **PySpark, Azure and DataBricks** to extract insights from big data for **strategic decision support** and cost reduction within regulated environment.
- **Line-managed, coached and mentored** junior data scientists to deliver tangible business value for customers and stakeholders.
- Highlight: Provided **collaborative leadership** to cross-functional teams through designing, building, piloting, and delivery of industry-leading AI solutions saving stakeholders £m per annum.

Nov 2017 - May 2022 — **ML Research & Engineering** — Infineon Technologies

- **Applied ML** research at world Top 10 semiconductor manufacturer.
- Engineered software leveraging ML algorithms such as **Gradient Boosted Trees and Neural Networks** to solve a complex, long-standing problem for Infineon's AURIX® range of chip designs.
- Highlight: Designed, implemented and monitored **novel data-driven methods** for automating chip verification. **Intelligent software** resulted in an efficiency leap of over 20%.

Education

Dec 2024 — **PhD, Computer Science** — University of Bristol
Thesis title: Intelligent Testing for Simulation-Based Verification of Complex Industrial Hardware

Jul 2017 — **MSc, Advanced Computing (Machine Learning, Data Mining and High Performance Computing)** — University of Bristol

Memberships & Certifications

2025 — **Chartered Management Institute Member** — CMI

2024 — **Databricks Certified Machine Learning Professional** — Databricks