

Denis Kuria

Nairobi, Kenya | 0793814448 | mwangid116@gmail.com | [My LinkedIn](#) | [My GitHub](#) | [My Website](#)

SUMMARY

Machine Learning Engineer with expertise in Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), n8n workflow automation, and AI-powered solutions. Skilled in machine learning, natural language processing, vector databases, and cloud computing. Experienced in building predictive models, recommendation systems, and AI-driven applications to optimize business processes. Strong background in technical writing, authoring in-depth guides on AI, cybersecurity, and programming for leading tech platforms. Passionate about leveraging RAG, LLMs, and workflow automation to enhance information retrieval, automate business processes, and improve AI-driven decision-making.

EXPERIENCE

Twilio

Aug 2024 - Present

Technical Writer

1018pear Street, FifthFloor San Francisco, California, 94105, USA

- Developed a Multilingual AI Support Agent: Created a comprehensive guide on building a multilingual AI support assistant using Twilio's SendGrid API and LangChain.js, enabling automated, language-specific customer support.
- Integrated Fetch API with Strapi: Explored the use of the Fetch API to perform CRUD operations on Strapi, facilitating authenticated API requests and enhancing backend interactions.

KUWAI

Oct 2024 - Present

n8n Workflow Automation Engineer

Nairobi Kenya

- Orchestrated AI Recruiting Pipeline
Designed and deployed an end-to-end workflow in n8n to automate candidate sourcing and qualification. Integrated PDF resume parsing, LinkedIn data extraction, and AI-driven analysis using OpenAI for candidate ranking based on custom rubrics. Connected outputs to Google Sheets. Reduced candidate vetting time by 70% while ensuring objective evaluations.
- LinkedIn Job-to-Lead Generation Agent
Built an automated pipeline in n8n that scrapes LinkedIn job listings, extracts company and contact details, and enriches data using Clearbit APIs. Used OpenAI to generate personalized outreach emails and SendGrid for dispatch, implementing rate limits and fallback handling to ensure compliance. Enabled scalable, targeted lead generation with minimal manual effort.
- AutoCategorise Outlook Emails with AI
Built an n8n workflow to process incoming Outlook emails, leveraging AI (OpenAI/ChatGPT) to automatically classify messages by category (e.g. Support, Sales, Urgent) and apply Outlook labels or route to appropriate folders. The system reduces manual email triage, improves response times, and maintains consistency across categories, ideal for scaling support operations.

The New Stack

Aug 2024 - Present

Contributing Writer

548 Market Street, SanFrancisco, California94104, USA

- Explored AI Agents' Impact on Digital Life: Authored an article examining how AI agents are poised to transform digital interactions, highlighting their potential to change personal and professional landscapes.
- Advocated for Trusted AI Responses: Discussed strategies to enhance AI accuracy by incorporating reliable sources, addressing challenges related to misinformation in AI-generated content.
- Demystified Vector Embeddings: Provided a beginner-friendly guide on vector embeddings, elucidating their significance and applications in AI and machine learning.
- Analyzed Data Management Evolution: Explored the progression from SQL and NoSQL databases to vector databases, offering insights into their respective strengths and use cases.
- Compared Vector Libraries and Databases: Evaluated the suitability of vector libraries versus vector databases for AI applications, guiding readers on optimal data management strategies.

Strapi

Apr 2024 - Present

Developer Advocate

128RuelaBoétie, 75008 Paris, France

- Developed AI-Powered Content Management Solutions: Created guides on integrating Strapi with LangChain.js, OpenAI, and vector databases to build AI-driven applications.
- Optimized API Consumption and Data Retrieval: Explored the use of Fetch API, REST, and GraphQL to efficiently interact with Strapi's Content API for dynamic data management.
- Built Scalable Web Applications: Demonstrated best practices for using Strapi as a headless CMS with frameworks like Next.js and React to create dynamic front-end applications.
- Enhanced Content Workflow Automation: Provided insights on automating content workflows with Strapi, integrating it with cloud storage solutions, authentication systems, and external APIs.

Zilliz(Creators of Milvus)

Apr 2024 - Present

Technical Writer

201 Redwood Shores Pkwy, SuiteB30, Redwood City, California94065, USA

- Authored In-Depth Articles on AI and Machine Learning: Developed comprehensive articles on topics such as Retrieval-Optimized Embedding Models, DeepRAG, and the impact of AI models like DeepSeek R1, contributing to the understanding of advanced AI concepts.

- Explored Multimodal AI Integration: Investigated the integration of audio, text, and vector search in AI systems, enhancing the understanding of multimodal AI applications.
- Discussed Advancements in Information Retrieval: Explored the role of rerankers in enhancing information retrieval systems, providing insights into improving search result relevance.
- Contributed to External Publications: Authored articles on integrating vector databases with existing IT infrastructure and the impact of AI agents on digital life, expanding the reach of technical insights.

Fizma Africa

May 2023 - Present

Machine Learning Engineer

Thika, Kenya

- Develops predictive models for customer churn analysis, this has resulted in a 23% reduction in customer attrition.
- Creates automated ETL pipelines for ingesting, cleaning, and transforming large datasets, streamlining data processing.
- Utilizes NLP techniques to extract insights from customer feedback and sentiment analysis, contributing to product improvement.
- Develops and deploys recommendation systems to increase user engagement and drive revenue growth.
- Presents data-driven insights to non-technical stakeholders in an understandable and persuasive manner.

CloudZilla.ai

Jan 2021 - Dec 2024

Technical Writer

Santa Clara, California 95054, USA

- Developed Computer Vision Applications: Created a tutorial on building a finger counter using OpenCV and Python, demonstrating real-time object detection techniques.
- Explored Digital Forensics and Data Recovery: Provided a guide on recovering deleted files using Foremost, showcasing forensic tools and techniques for data retrieval.
- Analyzed Machine Learning Evaluation Metrics: Explained key regression evaluation metrics, helping developers assess the performance of machine learning models effectively.

MakeUseOf

Dec 2022 - Dec 2023

Technical Writer

Montreal, Quebec H4T 1Z2, Canada

- Authored Comprehensive Guides on AI Frameworks: Wrote in-depth tutorials on LangChain LLM, covering foundational concepts, comparisons with other models, and implementation steps.
- Provided Python Programming Enhancements: Shared best practices for writing cleaner and more efficient Python code, including context managers, optimized conditional statements, and enumeration techniques.
- Developed Coding Tutorials: Created step-by-step guides on text analysis, API consumption, and data processing using Python and relevant libraries.
- Explored API Integration Techniques: Covered the use of Django templates for API consumption and developed news applications with Python and Tkinter.
- Shared Best Practices for Dependency Management: Provided insights on handling project dependencies, ensuring compatibility, and improving software maintainability.

EDUCATION

Meru University of Science and Technology

Apr 2019 - Apr 2023

Bachelor of Science, Computer Science

CERTIFICATES

- **Ethical Hacker:** Cisco 12/2023-05/2024

SKILLS

- Large Language Models Expert, Python Expert, integration, Cloud & API Development Advanced, Cybersecurity & Digital Intermediate, Vector Databases & Search Advanced, Forensics, Computer Vision Intermediate, Artificial Intelligence & Advanced, Machine Learning, Technical Writing Expert, Retrieval-Augmented Expert, JavaScript Intermediate, Generation (RAG)

LANGUAGES

- Kikuyu (Native)
- English (Fluent)
- Swahili (Native)