

# Lewis Gitonga Muriuki

Medical Student & Technology Enthusiast

 adelewigitz@gmail.com

 0711527211

 [github.com/toshlewi](https://github.com/toshlewi)

 <https://www.linkedin.com/in/lewis-gitonga-12783b34a/>

## Professional Summary

A dedicated medical student at the University of Nairobi with a strong passion for technology, specializing in Artificial Intelligence, Machine Learning, and Full-Stack Web Development. Recently completed intensive training at Power Learn Project Africa, becoming a **certified AI/ML developer**. Combines medical expertise with technical skills to develop innovative healthcare solutions, demonstrated through **award-winning hackathon projects**.

## Education

### Bachelor of Medicine and Bachelor of Surgery (MBChB)

Expected 2028

University of Nairobi

### Software Development (AI Specialization)

Feb 2025 - Jul 2025

Power Learn Project (PLP) Africa - Certificate Awarded

Intensive 16-week program covering Python, Web Technologies, Databases, and Software Engineering, with a specialization in **AI for Software Engineering**.

 Download CV

## Technical Skills

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### Programming Languages

- ▶ Python (AI/ML Focus)
- ▶ JavaScript/TypeScript
- ▶ SQL

### Frameworks & Libraries

- ▶ React.js
- ▶ Node.js
- ▶ TensorFlow/PyTorch

### Databases

- ▶ PostgreSQL (Supabase)
- ▶ MongoDB
- ▶ Firebase

### AI/ML Specializations

- ▶ Natural Language Processing
- ▶ Computer Vision
- ▶ Predictive Modeling

## Certifications & Achievements

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### Software Development (AI Specialization)

### Power Learn Project (PLP) Africa

Successfully completed a 16-week program in Software Development with a specialization in AI for Software Engineering.

### ITCILO Hackathon Certificate

International Training Centre of the ILO

Awarded for developing an innovative tech solution in a competitive hackathon environment.

## Technical Projects

### Fundi-Client Connection Platform (Bolt-like Service)

*React.js, Node.js, Supabase, Mapbox API*

- Developed a full-stack platform connecting service providers (fundis) with clients
- Implemented real-time location tracking and service matching algorithms
- Integrated secure payment processing and rating system

### AI-Integrated Hospital Management System

*Python, TensorFlow, React.js, MongoDB*

- Created comprehensive hospital management system with AI-powered features
- Implemented patient flow prediction models to optimize resource allocation
- Developed diagnostic suggestion system based on patient history and symptoms

### Foul Language Detection AI

*Python, NLP, Transformers, Flask*

- Trained custom NLP model to detect and classify inappropriate language
- Implemented context-aware analysis to reduce false positives
- Deployed as API for integration with various platforms

## ⌚ Medical Experience & Research

### Research on Hemophilia

- Conducted comprehensive literature review on current hemophilia treatments
- Analyzed patient data to identify patterns in treatment outcomes
- Presented findings at university research symposium

### Clinical Electives - Surgical Training

- Completed rotations in general surgery, orthopedics, and emergency medicine
- Assisted in various surgical procedures under supervision
- Developed patient management plans for post-operative care

## 👤 Professional Attributes

- ▶ Strong analytical skills with ability to bridge medical and technical domains
- ▶ Proven ability to manage complex projects with interdisciplinary requirements
- ▶ Excellent problem-solving skills with innovative approach to challenges
- ▶ Effective communicator able to explain technical concepts to non-technical audiences
- ▶ Commitment to continuous learning in both medical and technological fields

References available upon request