

# KYALO KELVIN MUINDI

Software Developer | Data Scientist | Machine Learning Engineer

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[Portfolio: muindikelvin.github.io](https://muindikelvin.github.io) | [GitHub: github.com/MuindiKelvin](https://github.com/MuindiKelvin)

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## PROFESSIONAL SUMMARY

Software developer and data scientist with hands-on experience building machine learning models and interactive data applications using Python, R, and SQL. Skilled in predictive analytics, feature engineering, and handling imbalanced datasets, with applied work spanning credit scoring, fraud detection, sentiment analysis, and cardiovascular risk prediction aligned with NHS clinical guidelines. Builds full-stack web applications and dashboards using React JS, Streamlit, and Tableau, and brings a human-computer interaction (HCI) and design-thinking background to ensure systems are usable, ethical, and aligned with real user needs. Strong analytical and communication skills, with a track record of independently shipping more than 20 deployed applications.

## CAREER OBJECTIVE

Seeking an IT role in a fast-paced organization where I can apply machine learning, data analysis, and full-stack development skills to deliver measurable business value, while continuing to grow as a leader in data-driven product development.

## KEY SKILLS & COMPETENCIES

- **Data Science & ML:** Python (pandas, scikit-learn, NumPy), R, predictive modeling, Balanced Random Forest, Logistic Regression, PCA-based feature extraction, model evaluation
- **Web & Database Development:** React JS, JavaScript, HTML, CSS, Bootstrap, PHP, MySQL, SQL
- **Data Visualization & BI:** Streamlit, Tableau, dashboard design
- **Systems & Networking:** Network installation, troubleshooting, and maintenance; OS configuration (Windows XP/7/10)
- **Design & UX:** Human-computer interaction (HCI), design thinking, Material Design front-end development
- **Professional:** Teamwork, organization and prioritization, analytical problem-solving

## PROFESSIONAL EXPERIENCE

### Freelance Academic Writer & Technical Researcher | *Self-employed*

Mar 2021 – Present

- Research and write academic, case-study-based papers in computer science topics for clients, requiring strong technical writing and independent research skills.
- Participate in ongoing online learning challenges and courses to stay current with developments in software development and data science.

### Digital Content Officer (Short-Term Consultancy) | *AVERC-Juja*

Oct 2020 – Mar 2021

- Coordinated digital learning content production, assigning tasks to subject-matter experts and tracking progress through Google Forms.

- Compiled, formatted, and submitted draft content for review, ensuring consistency and quality across contributions from multiple experts.
- Acted on directives from management and project administrators to keep content delivery on schedule.

### **Computer Maintenance Attachment** | *Kenya Wildlife Service (KWS) HQ, Lang'ata*

May 2019 – Aug 2019

- Assembled and maintained computer hardware, printers, and network equipment for HQ staff.
- Configured network clients and installed operating systems (Windows XP, 7, and 10) across desktop machines.

## **EDUCATION**

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### **BSc, Computer Science** | *University of Nairobi*

Sep 2016 – Sep 2020

- Graduated with Second Class Honours (Lower Division).

### **Kenya Certificate of Secondary Education (KCSE)** | *St. Andrew's High School*

Feb 2011 – Nov 2014

## **KEY PROJECTS & ACHIEVEMENTS**

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### **Machine Learning & Data Science**

- Heart Failure / Cardiovascular Risk Detection, risk model aligned with NHS clinical guidelines: <https://muindikelvin.shinyapps.io/Cardiovascular-Module/>
- Diabetes Risk Detection, early-detection prediction app: <https://early-detection-of-diabetes.streamlit.app/>
- Emotion Detection (CNN), convolutional neural network image classifier: <https://emotion-detection--convolutional-neural-networks.streamlit.app/>
- Animal Disease Classification, ML-based diagnostic support app: <https://animaldiseaseclassification.streamlit.app/>
- Crop Growing Recommendation, agricultural ML recommendation engine: <https://crop-recommendationapp.streamlit.app/>
- AI Search Assistant, conversational search webapp: <https://mysearchbot.streamlit.app/>

### **Web Development**

- Heritage of Faith and Hope Rehabilitation Center, designed and developed full production website: <https://heritageoffaithandhope.org/>
- Iterin Immigration, client website: <https://iterinimmigration.co.ke/>
- Dental Services Management System, full-stack practice management webapp: <https://dental-management-system-3f0d1.web.app/>
- E-Learning System, course delivery webapp: <https://e-learning-system-e8b1f.web.app/>
- Real-Time Covid-19 Tracker, live global data dashboard: <https://covid-19-tracker-43f3d.web.app/>
- Weather Forecast App: <https://weather-app-14062.web.app/login>
- PDF Merger Tool: <https://pdf-merger-9628f.web.app/>
- Video Conferencing App: <https://video-conferencing-app-e397d.web.app/>

### **Other Projects (React JS Clones, UI/Front-End Practice)**

- Amazon & Airbnb Clone Suite: <https://challenge-1dcd6.web.app/>
- WhatsApp Clone: <https://whats-app-clone-f8c85.web.app/>
- Gmail Clone: <https://clone-60448.web.app/>
- YouTube Clone: <https://clone-5c196.web.app/>

- Facebook Messenger Clone: <https://facebook-messenger-clone-48eb0.firebaseio.com/>
- Netflix Clone: <https://netflix-clone-cbd02.web.app/>
- Twitter Clone: <https://twitter-clone-2c3a7.web.app/>
- Instagram Clone: <https://instagram-clone-3ff6b.firebaseio.com/>

### Open Source

- Contributed two repositories preserved in GitHub's Arctic Code Vault Archive Program (2020).

## INTERESTS

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Following advances in artificial intelligence and machine learning, with a particular interest in applying AI-driven innovation to improve business efficiency and decision-making.

## REFEREES

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**Kevin Oloo**, CEO & Founder, Acenixy Technologies

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