

## **CURRICULUM VITAE**

**Mr. Jackson Kamiri Wambugu**

(PHD IT -Ongoing), Master of Science in Information Technology, Bachelor of Business Information Technology- First class Honours)

### **PERSONAL INFORMATION**

Gender: Male  
Nationality: Kenyan  
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### **PROFESSIONAL BODY MEMBERSHIP**

Association for Computing Machinery (ACM), Membership Number: **2420288**

### **BRIEF PROFILE**

I am a Tutorial Fellow in the department of Information Technology, School of Computing and Information Technology, Murang'a University of Technology. I hold Master of Science in Information Technology and Bachelor of Business Information Technology (First Class Honours) degrees from Murang'a University of Technology, currently I am pursuing Doctor of Philosophy in Information Technology. My area of specialization is in the field of Artificial Intelligence subfield of Machine Learning. As a Tutorial Fellow I have been involved in research work, teaching undergraduate and diploma students, serving in several University committees, and other administrative duties. I am a hardworking person, a team player, passionate about continuous improvement, and committed to delivering quality results.

## **EDUCATION BACKGROUND**

<b>Institution (Date from-Date To)</b>	<b>Course/ Programme</b>	<b>Award</b>
Murang'a University of Technology (2023)	Doctor of Philosophy in Information Technology	Ongoing
Murang'a University of Technology (2020-2022)	Master of Science in Information Technology	MSc. IT Degree.
Murang'a University of Technology (2015-2019)	Bachelor of Business Information Technology	Undergraduate Degree-First Class Honours
Naromoru mixed secondary school (2011-2014)	Kenya Certificate of Secondary Education	KCSE Certificate-B (plain)

## **OTHER QUALIFICATIONS/ CERTIFICATIONS EARNED**

<b>Qualification Earned</b>	<b>Awarding Organization</b>
Artificial Intelligence Analyst Mastery Award	IBM Skills Academy
HCIA-Artificial intelligence	Huawei ICT Academy
ISO 9001:2015 and ISO27001:2013 Standards Audit Certification	Maier Consulting

## **AWARDS EARNED**

- 1) Murang'a University of Technology                      Scholarship to pursue Master degree.  
Graduate Assistant Scholarship-

## TRAININGS ATTENDED

<i>Date</i>	<i>Training Organization</i>	<i>Venue</i>	<i>Achievements</i>
<i>11<sup>th</sup> March to 15<sup>th</sup> March 2024</i>	Maier Consulting	Nokras Riverine	Trained to Audit internal management systems based on ISO 9001:2015 and ISO 27001: 2013 standard
<i>10<sup>th</sup> May to 14<sup>th</sup> May 2021</i>	Huawei ICT Academy	Online	Trained, examined and certified with HCIA-Artificial Intelligence
<i>29<sup>th</sup> June to 16<sup>th</sup> July 2020</i>	IBM Skills Academy	Online	Trained, examined and certified in Artificial Intelligence Analyst Mastery Award
<i>21<sup>st</sup> July to 24<sup>th</sup> July 2020</i>	TVET CDACC	Online Facilitated by Murang'a University of Technology	Trained on Training, Assessing, Verifying, and administration of CBC courses

## WORK EXPERIENCE

1) **May 2023- To date, Department of Information Technology, Murang'a University of Technology**

**Position: Tutorial Fellow**

**Duties:**

- Conducting Research
- Teaching Undergraduate students
- Setting and Administering examinations
- Supervision of undergraduate students' research projects
- Assessment of students on industrial attachment
- Marking examinations and processing student's marks
- Assisting in department's and school's management activities
- Mentoring Students
- Curriculum development and review
- Member of department of IT board of examiners

- Member of the School of Computing and IT board of Examiners
- Membership in various University committees and subcommittees

**2) November 2019 To May 2023, Department of Information Technology, Murang'a University of Technology**

**Position: Graduate Teaching Assistant**

**Duties:**

- Conducting Research
- Teaching Diploma and Certificate students
- Setting and Administering examinations
- Marking examinations and processing student's marks
- Assessment of students on industrial attachment
- Assisting in department's and school's management activities
- Mentoring Students
- Curriculum development and review
- Member of department of IT board of examiners
- Member of the School of Computing and IT board of Examiners
- Membership in various University committees and subcommittees

**Other University Duties**

**March 2024 -To Date: Murang'a University of Technology Internal Management Systems Auditor**

**Duties**

- Auditing the University's Quality management Systems (QMS) based on ISO 9001:2015 Standard
- Auditing the University's Information Security Management Systems (ISMS) based on ISO 27001:2013 Standard
- Preparing audit reports and ensuring corrective actions are implemented when necessary.

**Special University Duties:**

- School of Computing and Information Technology PC& ISO (*ISO 9001:2015 and ISO 27001:2013 standards*) champion
- Coordinating Diploma programmes in the School of Computing and IT

- Served as a member for the Secretariat subcommittee and program & publications subcommittee during the 2<sup>nd</sup> MUT International Conferences held on November 2023.
- Served as member of two graduation subcommittees namely; Entertainment subcommittee, Invitations, Luncheon Cards & Program subcommittee) during the 7<sup>th</sup> MUT graduation ceremony
- Served as a secretariat to the committee responsible for Organizing the 1<sup>st</sup> MUT International Conferences held between 3<sup>rd</sup> to 5<sup>th</sup> November 2021.

**3) August 2019 To September 2019, Civil Registration Department Murang’a East.**

**Position: Digitization program clerk**

Duties:

- Data entry.
- Data verification.

**4) May 2019 To 12<sup>th</sup> July 2019, Amica Savings & Credit Ltd:**

**Position: Industrial attachment**

Duties:

- Managing the department’s Local Area Network, Data analytics, Troubleshooting computer hardware and software, Customer relationship management.

**RESEARCH WORK**

**Google Scholar Profile: Jackson Kamiri**

A Multi-task Deep Neural Network Model for Medical Image Segmentation and Classification-  
*Proposed PhD IT research*

A Transfer Learning and Two-Level Hyperparameters Optimization Based Model for Improved Classification of Diabetic Retinopathy- *MSc. IT Thesis work*

**PUBLICATIONS**

- [1] **J. Kamiri** and G. Mariga, “Research Methods in Machine Learning: A Content Analysis”, IJCIT, vol. 10, no. 2, Mar. 2021, <https://doi.org/10.24203/ijcit.v10i2.79>.

- [2] **J. Kamiri**, G. Mariga, and A. Oirere, “A Systematic Literature Review of Meta-Learning Models for Classification Tasks,” *Int. J. Comput. Appl. Technol. Res.*, vol. 11, no. 03, pp. 56–65, 2022, doi: 10.7753/ijcatr1103.1002.
- [3] **J. Kamiri**, G. M. Wambugu, and A. M. Oirere, “A Comparative Study of Deep Learning and Transfer Learning in Detection of Diabetic Retinopathy,” *Int. J. Comput. Appl. Technol. Res.*, vol. 11, no. 07, pp. 247–254, 2022, doi: 10.7753/ijcatr1107.1001.
- [4] Onyango, K. A., **Kamiri, J.**, & Muketha, G. M. (2023). A comparative study of the lexicographical complexity of Java, Python and C languages based on program characteristics. *Journal of Innovation, Technology and Sustainability*, 1(1), 42-67.

### **CONFERENCES ATTENDED**

1. Murang’a University of Technology International Conference on Technology and Innovation for sustainable development (3<sup>rd</sup> to 5<sup>th</sup> November 2021)

#### **Presented**

A Systematic Literature Review of Meta-Learning Models for Classification Tasks.  
*Jackson Kamiri Wambugu, Geoffrey Mariga Wambugu*

A Comparative Study of the Lexicographical Complexity of Java, Python, and C Programming Languages Based on Program Characteristics. *Kevin Agina Onyango, Jackson Kamiri Wambugu and Geoffrey Muchiri Muketha*

### **SKILLS AND COMPETENCIES**

#### **PROFESSIONAL/TECHNICAL SKILLS:**

- Conducting Scholarly research
- Curriculum development and implementation
- Lecturing
- Internal management Systems Auditing
- Setting and administering examinations.
- Processing examination results
- Java programming.
- Python Programming
- Artificial Intelligence
- Machine Learning

- Deep Learning
- TensorFlow Framework
- Network designing and implementation.
- MYSQL database administration.
- Software testing and installation.
- Computer hardware maintenance.
- Data analytics.
- Visual programming
- Long-term and short-term business planning.
- Industry trends analysis.
- Customer relationship management.

**SOFT SKILLS:**

- Excellent Written and Spoken communication Skills.
- Good analytical skills.
- Good research and reporting skills.
- High levels of creativity.
- Highly organized.
- Trained peer counsellor (certified).

**REFEREES:**

**Dr. John Gichuki Ndia**

Ag. Dean School of Computing and Information Technology

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**Professor Geoffrey Muchiri Muketha**

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