

# Wycliffe Mwebi

## DATA SCIENCE & MACHINE LEARNING EXPERT

1. PERSONAL DATA	
NATIONALITY	Kenyan
LANGUAGES:	English, Swahili
PROFESSION	Computer Science & ICT
LOCATION	Nairobi-Kenya
TELEPHONE CONTACT	0712514020
EMAIL ADDRESS	Wikie7@gmail.com
GITHUB PAGE	<a href="https://github.com/Wycliffe-Mwebi">https://github.com/Wycliffe-Mwebi</a>
WEBSITE	<a href="https://wycliffe-mwebi.github.io/">https://wycliffe-mwebi.github.io/</a>

2. EDUCATION	
2008-2010	<b>Master's degree in Innovation, Technology &amp; Law</b> -University Of Edinburgh, UK
2003-2006	<b>Bachelor of Science (Honors), Computer Studies</b> -University of Sunderland, UK
2000-2002	<b>Higher Diploma</b> in management of Information Systems,

3. TECHNICAL SKILLS/TOOLS	
DATA ANALYTICS:	-EXCEL, POWER BI, R, TABLEAU, STATISTICS
DATA SCIENCE & ML:	-PYTHON, PANDAS, NUMPY, SCIPY, TENSORFLOW
RELATIONAL DATABASES:	-MYSQL
DATA VISUALIZATION	-TABLEAU, POWER BI, MATPLOTLIB, GGLOT
RESEARCH	- Mobile Data Collection, Survey CTO, ODK, Qualitative/Quantitative data Analysis, Geospatial analysis
STATISTICAL MODELING:	- R, STATA, SPSS, MATLAB
BIG DATA TECHNOLOGIES:	- HADOOP, HDFS, SPARK, KAFKA, HIVE AND MAPREDUCE
DATA INFRASTRUCTURE:	-Cloud solutions for data infrastructure (AWS, GCP,)

4. CORE SKILLS/QUALIFICATIONS	
• Team Leadership	• Strategic planning
• Solution Design	• Stakeholder Communication
• Project Management	• Problem Resolution
• Technology integration	• Training & Mentoring
• Requirements analysis	• Data science Technologies

## 5.EMPLOYMENT HISTORY & RESPONSIBILITIES

Aug 2016- To date	<b>JUNGLE ANALYTICS - (<a href="http://www.jungle-analytics.com">www.jungle-analytics.com</a>)</b> <b>Data Scientist</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Developing systems, policies, procedures and protocols for data management within the company</li> <li>• Develop the team's capabilities in data science and machine-learning, and apply them to create new data-driven insights.</li> <li>• Design, conduct, and report results from prototype or proof-of-concept research projects that focus on; <ul style="list-style-type: none"> <li>a) New tools, methods, or algorithms,</li> <li>b) New scientific domains or application areas, or</li> <li>c) New data sets or sources</li> </ul> </li> <li>• Use statistical models and other data science tools to generate, analyze and communicate pertinent data, identify patterns and anomalies in large datasets related to illicit domestic and international trade to improve risk management and law enforcement activities.</li> </ul>
<b>Achievements</b>	<ul style="list-style-type: none"> <li>• <i>Successfully designed a RISK Analytics machine learning model that was scaled to production with an ability to assess the relevance of the risk selectivity criteria, to simulate the impact of new criteria on examiners workload and, through A.I. fraud detection algorithms, to automatically propose new criteria in relation to the latest fraud trends.</i></li> </ul>

2015 -to date (Part-Time)	<b>Jomo Kenyatta University of Agriculture &amp; Technology (JKUAT)</b> <b>Lecturer: -Department of Statistics</b>
<b>Duties</b>	<ul style="list-style-type: none"> <li>• Lecturing, Supervising and Examining undergraduate students in Computer Science related courses.</li> <li>• Developing Syllabus for the courses assigned to me.</li> <li>• Research and designing of new courses and materials.</li> <li>• Set up of exams and the marking of results.</li> <li>• Providing mentoring, advice and support to students on a personal level.</li> </ul>
<b>Course Responsibility</b>	<ul style="list-style-type: none"> <li>• Artificial Intelligence &amp; Machine Learning</li> <li>• Object Oriented Programming using C++, Java, Python</li> <li>• Statistical Programming using R</li> <li>• Database Management Systems</li> </ul>

Jan 2015- July 2016	<b>SICPA - (<a href="http://www.sicpa.com">www.sicpa.com</a>)</b> <b>Business Intelligence Specialist</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Research &amp; develop Machine Learning models for security problems, in the areas of government of Kenya excise duty tax collection.</li> <li>• Translate business propositions into quantitative queries and collect/clean the necessary data.</li> <li>• Build scalable databases capable of ETL processes using SQL and Spark.</li> <li>• Evaluate the workflow and increase the efficiency of data pipelines that process over 5 TB of data daily.</li> <li>• Utilize MongoDB to create NoSQL databases that harvests data from a variety of sources.</li> </ul>
<b>Achievements</b>	<ul style="list-style-type: none"> <li>• <i>Automated the ETL process, making it easier to wrangle data and reducing time by as much as 40%</i></li> <li>• <i>Managed a team of 5 technical consultants and two Business consultants</i></li> <li>• <i>Developed dimensional data modeling to satisfy OLAP needs</i></li> </ul>
Jan 2012- Dec 2014	<b>Mount Kenya University – <a href="http://www.mku.ac.ke">www.mku.ac.ke</a></b> <b>Lecturer -Department of IT,</b> <b>Head of – School of Pure and Applied Sciences</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Lecturing, Supervising and Examining undergraduate students in Computer Science related courses.</li> <li>• Developing Syllabus for the courses assigned to me.</li> <li>• Research and designing of new courses and materials.</li> <li>• Assessing students course work and material.</li> <li>• Set up of exams and the marking of results.</li> </ul>
<b>Course Responsibility</b>	<ul style="list-style-type: none"> <li>• Artificial Intelligence &amp; Machine Learning</li> <li>• Object Oriented Programming using C++, Java</li> <li>• Data Mining</li> <li>• Supervised and assessed Final Year IT research projects</li> </ul>
<b>Extra Academic Duties</b>	<ul style="list-style-type: none"> <li>• Served as Head of the School of Pure &amp; Applied Sciences</li> <li>• Served as Chairman of University Income Generating Activities committee (IGA)</li> </ul>
<b>Achievements</b>	<ul style="list-style-type: none"> <li>• <i>Successfully managed and led a team of 16 lecturers and Assistants in the school of pure and Applied sciences.</i></li> <li>• <i>Expanded the University (non-academic) income generation Activities program from almost non-existent status to an over KES 2M a year operation.</i></li> <li>• <i>Enacted a mentorship program for students carrying out their final year projects to enable them transition into industry competent researchers.</i></li> </ul>

2009-2011	<b>International Monetary Fund (IMF)</b> , Washington DC, ( <a href="http://www.imf.org">www.imf.org</a> ) <b>Project Officer: -Facilities Management Division</b>
<b>Duties</b>	<ul style="list-style-type: none"> <li>Developing Data Warehousing solutions in SQL Server, Designing ETL solutions using SSIS and OLAP cubes using SSAS (tabular and multi-dimensional).</li> <li>Participate in all aspects of the System life cycle, including analysis, design, development, testing, production deployment and support, including creating formal written deliverables and other documentation.</li> </ul>
<b>Achievements</b>	<ul style="list-style-type: none"> <li><i>Increased departmental capacity by centralizing critical metrics and creating connectivity to SharePoint workflows and financial information to generate monthly activity financial reports.</i></li> </ul>

6. REFERENCES	
<b>Referee Name</b>	<b>Role, Institution</b>
<b>Mr. Edward Oswe</b> Tel; +254 712 460379 <a href="mailto:ceo@msk.co.ke">ceo@msk.co.ke</a>	<i>Chief Executive Officer, Marketing Society of Kenya</i>
<b>Dr. Charles Omoke</b> Tel; +254 711 170540 <a href="mailto:comoke70@gmail.com">comoke70@gmail.com</a>	<i>Senior Lecturer &amp; Chairman Of Department, Jaramogi Oginga Odinga University of Science and Technology,</i>
<b>Mr. Nicholas Musau</b> Tel; +254 722 772601 <a href="mailto:musau007@gmail.com">musau007@gmail.com</a>	<i>Director of ICT Andela</i>