
Kassim Said Mwitondi (BIO)



<https://www.shu.ac.uk/about-us/our-people/staff-profiles/kassim-mwitondi>

Kassim obtained his PhD in Statistical Data Mining from the School of Mathematics of the University of Leeds, in 2003. A well-rounded multi-disciplinary professional, he also holds MSc degrees in Statistics, Computing and in Finance, with many years of experience in teaching, research and consulting across continents. His research interests are in extracting knowledge from multi-faceted data and he has successfully secured and managed many interdisciplinary research projects. He is a regular presenter at a number of international conferences on data science and related fields across the world and he has published extensively in those areas. He is a keen promoter of interdisciplinary approach to scientific research, open data and open science. His research work focuses on the application of deep learning and other machine learning techniques in interdisciplinary modelling of real-life phenomena within the domain of Sustainable Development Goals (SDGs)—viewing each SDG as a Big Data node.

Kassim has taught on data analytics courses and supervised dissertation projects at both undergraduate and postgraduate levels. His training philosophy is geared towards promoting real-life applications, using real data and guiding learners in devising real-life data-driven solutions. He has supervised several PhD theses to completion and he provides training for industry practitioners using a range of data science tools—R, Python, SAS-EM & SAS-EG covering:

1. Clustering: K-Means, Self-organising Maps (SOMs), Principal Component Analysis (PCA), Association Rules.
2. Classification of structured and unstructured data: Support Vector Machines (SVMs), Neural Networks (NNs), Logistic Regression etc, Decision Trees, Random Forests, Convolutional Neural Networks, Random Forests.
3. Project Management.