



DR. ABDULRAHMAN A. M. ALMUTWAFY

PhD (IT), MSc (IT), MSc (CS), BSc (IT)



Management Science
Consultant

Data Scientist

Strategic Planning
Expert

Researcher

Lecturer

Capacity Building
Specialist



Mombasa,
Kenya



almutwafy
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+254 713 500 814
+254 733 727 695



Available for Local
& International
Assignments



LinkedIn:
Abdulrahman A. M.
Almutwafy

“

*Transforming Institutions Through Strategy, Research,
Data Analytics, Digital Transformation, and
Evidence-Based Decision Making,*

”

PROFESSIONAL SNAPSHOT



Strategic
Planning
20+
Assignments



Consultancy
Experience
15+
Years



Research &
Surveys
30+
Projects



Capacity
Building
50+
Trainings



AI & Data
Science
10+
Years Experience



University
Teaching
13+
Years



Publications
12+
Peer-Reviewed Articles
& IEEE Papers



Countries
Worked
**Kenya,
Somalia**



Research Publication
Period
2014–2025



Professional
Membership
Computer
Society of Kenya

DR. ABDULRAHMAN A. M. ALMUTWAFY

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PROFESSIONAL
PROFILE

MANAGEMENT SCIENCE CONSULTANT | DATA SCIENTIST | STRATEGIC PLANNING EXPERT
RESEARCHER | LECTURER | CAPACITY BUILDING SPECIALIST



Management
Science
Consultant



Data
Scientist



Strategic
Planning
Expert



Researcher



Lecturer



Capacity
Building
Specialist



PROFESSIONAL PROFILE



Dr. Abdulrahman A. M. Almutwafy, PhD (IT), MSc (IT), MSc (CS), BSc (IT), is a highly accomplished Management Science Consultant, Data Scientist, Strategic Planning Expert, Researcher, Lecturer, and Capacity Building Specialist with over fifteen (15) years of professional experience spanning consultancy, higher education, public sector transformation, digital transformation, organizational development, research, monitoring and evaluation, data analytics, artificial intelligence, and institutional capacity strengthening.



He holds a Doctor of Philosophy (PhD) in Information Technology from the Technical University of Mombasa, a Master of Science in Information Technology, a Master of Science in Computer Systems, and a Bachelor of Science in Information Technology. His multidisciplinary academic and professional background uniquely positions him at the intersection of management science, technology, research, policy, and evidence-based decision-making.



Dr. Almutwafy has successfully led and supported consultancy assignments for government ministries, state corporations, county governments, universities, schools, SACCOs, development partners, non-governmental organizations, and international agencies. His clients include the International Organization for Migration (IOM), Kenya Accreditation Service (KENAS), National Council for Children's Services (NCCS), Kenya Bureau of Standards (KEBS), Kenya Tourism Board (KTB), county governments, educational institutions, and various public and private sector organizations across Kenya and the East African region.



His core areas of expertise include Strategic Planning, Organizational Development, Digital Transformation, Artificial Intelligence and Machine Learning, Data Science and Analytics, Research and Surveys, Monitoring and Evaluation, ICT Governance, Policy Development, Performance Management, Workload Analysis, Business Process Improvement, Quality Management Systems, Capacity Building, Institutional Strengthening, and Public Sector Reform.



As a researcher and scholar, Dr. Almutwafy is the author and co-author of more than twelve (12) peer-reviewed international journal articles and IEEE conference papers covering Artificial Intelligence, Machine Learning, Data Science, Information Systems, Human-Computer Interaction, Web Engineering, Cybersecurity, Database Systems, and Poverty Analytics. His current research focuses on the application of Artificial Intelligence, Multidimensional Data-Driven Approaches (MDDA), Explainable AI, and Machine Learning Optimization Models for Poverty Detection and socio-economic development.



He has designed and facilitated numerous executive training programmes, strategic planning retreats, research methodology workshops, ICT governance programmes, cybersecurity awareness initiatives, statistical quality control training, data analytics workshops, digital transformation programmes, and organizational development interventions. Through these engagements, he has trained and mentored professionals from government institutions, academia, development organizations, and the private sector.



Driven by a passion for innovation, institutional excellence, and evidence-based policy formulation, Dr. Almutwafy combines analytical rigor, strategic thinking, technological expertise, and practical implementation experience to support organizations in achieving sustainable growth, operational excellence, digital transformation, and measurable development impact.

CORE AREAS OF EXPERTISE



Strategic Planning & Policy Development



Organizational Development & Institutional Strengthening



Digital Transformation & ICT Governance



Artificial Intelligence & Machine Learning



Data Science & Analytics



Research, Surveys, Monitoring & Evaluation



Performance Management & Workload Analysis



Business Process Improvement



Quality Management Systems



Capacity Building & Training



Public Sector Reform & Governance

PROFESSIONAL HIGHLIGHTS



15+ Years of Professional Experience



12+ Peer-Reviewed International Journal Articles & IEEE Conference Papers



Extensive Consultancy & Training Across Kenya & East Africa



Worked with Government, County Governments, Universities, NGOs, SACCOs & International Organizations



Passionate About Innovation, Evidence-Based Decision Making & Sustainable Development



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Data Scientist

Strategic Planning Expert

Researcher

Lecturer



ACADEMIC QUALIFICATIONS

Doctor of Philosophy (PhD) in Information Technology

Technical University of Mombasa

Awarded: 2026

Research Area: *An Optimized Machine Learning Model Using a Multidimensional Data-Driven Approach for Poverty Detection*

Master of Science in Information Technology

Mount Kenya University

2021

Master of Science in Computer Systems

JKUAT

2015

Bachelor of Science in Information Technology

JKUAT

Second Class Honours (Upper Division)

2013

PROFESSIONAL MEMBERSHIPS

Computer Society of Kenya (CSK)

- Individual Member
- Membership No. 114290
- Since July 2015

Professional Interests

- Data Science
- Artificial Intelligence
- Digital Transformation
- Strategic Planning
- Organizational Development
- Research and Innovation



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Researcher

Lecturer

AREAS OF EXPERTISE

A. Strategic Management & Governance

- Strategic Planning
- Institutional Development
- Organizational Transformation
- Governance Frameworks
- Policy Development
- Performance Management
- Balanced Scorecard

B. Research & Analytics

- Research Design
- Surveys and Assessments
- Impact Evaluations
- Monitoring & Evaluation
- Data Analytics
- Business Intelligence
- Predictive Analytics

C. Digital Transformation

- Digital Transformation Strategy
- ICT Governance
- Enterprise Architecture
- Data Governance
- Cybersecurity
- Digital Service Delivery

D. Emerging Technologies

- Artificial Intelligence
- Machine Learning
- Data Science
- Big Data Analytics
- Business Intelligence

E. Capacity Building

- Executive Training
- Leadership Development
- Strategic Planning Facilitation
- Research Methodology
- Statistical Analysis
- ICT Training



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Management Science Consultant | Data Scientist | Strategic Planning Expert
Researcher | Lecturer

PROFESSIONAL EXPERIENCE

Management Science Consultant

Global Signature Consultancy (GSC)

2018 – Present

Key Responsibilities:

- Strategic Planning
- Institutional Reviews
- Organizational Development
- Research and Surveys
- Policy Development
- Digital Transformation
- Capacity Building
- Data Analytics

Adjunct Lecturer

2013 – Present

Institutions:

- Technical University of Mombasa
- JKUAT
- Taita Taveta University College

Teaching Areas:

- Artificial Intelligence
- Data Structures
- Databases
- Information Security
- Web Engineering
- Research Methods
- Data Analytics



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STRATEGIC PLANNING ASSIGNMENTS

 CLIENT	 ASSIGNMENT	 YEAR
Sheikh Khalifa Bin Zayed School	Strategic Plan 2026-2030	2026
GDC SACCO	Strategic Plan 2026-2030	2026
University of Somalia	Strategic Plan 2026-2031	2026
NCCS	Strategic Plan 2023-2027	2023
Shanzu TTC	Strategic Plan 2024-2028	2024
Mombasa Public Service Board	Strategic Plan 2020-2024	2020
Kilifi South NG-CDF	Strategic Plan 2019-2023	2019
JKUAT Mombasa CBD	Strategic Plan 2018-2022	2018
Likoni NG-CDF	Strategic Plan 2018-2022	2018
Coast Water Service Board	Strategic Plan 2018-2022	2018
Mombasa Catholic CBHC	Strategic Plan 2018-2022	2018
St Joseph Shelter of Hope	Strategic Plan 2018-2022	2018
Kichaka Simba Primary School	Strategic Plan 2019-2023	2019



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DIGITAL TRANSFORMATION ASSIGNMENTS

 CLIENT	 YEAR	 ASSIGNMENT
KENAS	2026	Digitalization Strategy
Mombasa County Government	2026	ICT Policy Development
Kwale County Government	2020	ICT Policy & Strategic Plan



RESEARCH AND SURVEYS

 CLIENT	 YEAR	 ASSIGNMENT
IOM	2020	Radicalization and Illicit Drugs Study
IOM	2019	Market Needs Assessment
IOM	2019	Lamu Market Assessment
PMAESA	2016	Customer Satisfaction Survey
Kenya Land Alliance	2015	Oil and Coal Mining Impact Study
COEC	2017	Women CVE Charter



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TRAINING & CAPACITY BUILDING ASSIGNMENTS

NO.	TRAINING ASSIGNMENT	CLIENT / INSTITUTION	YEAR
1	Statistical Quality Control (SQC) Training	Kenya Bureau of Standards (KEBS)	2026
2	Digital Strategy and Transformation for Cooperatives	SACCO Sector Institutions	2024
3	Artificial Intelligence and Data Science Awareness Sessions	Academic and Professional Forums	2024
4	Digital Transformation and ICT Governance Training	Public Sector Organizations	2024
5	ICT Policy Development and Implementation Training	County Governments & Public Institutions	2020
6	Business Development Training	International Organization for Migration (IOM)	2019
7	Business Management Training	International Organization for Migration (IOM)	2019
8	Strategic Planning Facilitation Workshops	Government, Universities, Schools and NGOs	2018
9	Data Analytics Training	Kenya Tourism Board (KTB)	2018
10	SPSS Statistical Data Analysis Training	National Organization for Community Development (NOCD)	2018
11	Monitoring and Evaluation (M&E) Capacity Building	NGOs and Public Sector Institutions	2018
12	Cybersecurity Awareness and Best Practices Workshops	Various Institutions	2017
13	Information Technology Audit Conferences	ISACA Kenya Chapter & Partners	2017
14	Research Methodology and Data Analysis Training	Universities and Research Institutions	2015



RESEARCH PUBLICATIONS & CONFERENCE PROCEEDINGS



No.	 Publication Title	 Year	 Publisher / Venue	 Research Area	 Link / DOI / Access URL
1.	Responsive Web Design in Fluid Grid Concept Literature Survey	2014	The IJES, Vol.3 Issue 7	Web Engineering	http://www.theijes.com/papers/v3-17/Version-3/G0373049057.pdf
2.	Liquidizer.js: A Responsive Web Design Algorithm	2015	The IJES	Web Engineering	http://www.theijes.com/papers/v4-15/Version-3/L0453078091.pdf
3.	Liquidizer.js: Algorithm	2015	GitHub Repository	Software Engineering	https://github.com/almutwafy/Liquidizer
4.	An Enhanced Approach to Responsive Web Design in Fluid Grid Concept	2015	IJSER	Web Engineering	http://www.ijser.org/onlineResearchPaperViewer.aspx?An-Enhanced-Approach-to-Responsive-Web-Design-in-Fluid-Grid-Concept.pdf
5.	A Literature Survey of Image Descriptors in Content Based Image Retrieval	2016	IJSER	Computer Vision & AI	http://www.ijser.org/onlineResearchPaperViewer.aspx?A-Literature-Survey-of-Image-Descriptors-in-Content-Based-Image-Retrieval.pdf
6.	Novel Advances in Measuring and Preventing Software Weakness: CTR	2016	The IJES	Cybersecurity	http://www.theijes.com/papers/v5-46/version-2/P050602098102.pdf
7.	Multimedia Databases: Performance Measure Benchmarking Model (PMBM) Framework	2017	The IJES, Vol.6 Issue 6	Database Systems	http://www.theijes.com/papers/vol6-issue6/F0066014958.pdf
8.	Literature Survey: Data-driven Approach for Selection of an Ensemble Model of Profane Words Detection in Social Media	2018	IJSER, Vol.9 Issue 10	Machine Learning & NLP	https://www.ijser.org/researchpaper/Literature-Survey-Data-driven-Approach-for-Selection-of-an-Ensemble-Model-of-Profane-Words-Detection-in-Social-Media.pdf
9.	Simulation Approach of Algorithm Theories for Predictive Model Reliability	2018	IJSER, Vol.9 Issue 10	Predictive Analytics	https://www.ijser.org/onlineResearchPaperViewer.aspx?Simulation-Approach-of-Algorithm-Theories-for-Predictive-Models-Reliability.pdf
10.	Data-driven Approach for Selection of an Ensemble Model of Profane Words Detection in Social Media	2021	IEEE Conference Proceedings (icABCD 2021)	Artificial Intelligence & Machine Learning	IEEE Conference Proceedings / ISBN Reference
11.	Navigating Interface Issues: A Comprehensive Review and Analysis	2024	Open Journal for Information Technology	Human Computer Interaction	Journal URL
12.	Optimized Machine Learning Models for Poverty Detection: A Scientific Review of Multidimensional Approaches	2025	IJRSI	Artificial Intelligence & Poverty Analytics	Journal URL
13.	Modeling of a Multidimensional Data-Driven Approach (MDDA) for Optimized ML Model in Poverty Detection	2025	The IJES, Vol.14 Issue 6	AI & Poverty Detection	Published June 2025 (The IJES Certificate)
14.	Development and Simulation of a Multidimensional Data-Driven Framework for Optimized ML in Poverty Detection	2025/2026	PhD Research Publication	Machine Learning & Poverty Analytics	Under Publication



Peer-Reviewed Publications

12+



IEEE Conference Papers

1+



International Journals

10+



Research Areas

9



Research Publication Period

2014-2025



Lead Author Publications

90%+



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PROFESSIONAL REFEREES

NO.	REFEREE	POSITION / TITLE	INSTITUTION	EMAIL
1.	 Dr. Michael W. Kimwele Senior Lecturer & Researcher Jomo Kenyatta University of Agriculture and Technology (JKUAT)	 Senior Lecturer & Researcher	 Jomo Kenyatta University of Agriculture and Technology (JKUAT)	 mkimwele@jkuat.ac.ke
2.	 Dr. George Okeyo Senior Lecturer & Researcher Jomo Kenyatta University of Agriculture and Technology (JKUAT)	 Senior Lecturer & Researcher	 Jomo Kenyatta University of Agriculture and Technology (JKUAT)	 george.okeyo@jkuat.ac.ke
3.	 Dr. Fridah Simba Director Jomo Kenyatta University of Agriculture and Technology (JKUAT) Mombasa Campus	 Director	 Jomo Kenyatta University of Agriculture and Technology (JKUAT) Mombasa Campus	 director-mombasa@jkuat.ac.ke
4.	 Dr. Walter Ongeti CEO Kenya Accreditation Service (KENAS)	 CEO	 Kenya Accreditation Service (KENAS)	 ongetiw@kenas.go.ke
5.	 Ms. Yoko Fujimura Programme Officer Mombasa Branch International Organization for Migration (IOM)	 Programme Officer Mombasa Branch	 International Organization for Migration (IOM)	 yfujimura@iom.int
6.	 Mr. Abdinoor S. Mohamed CEO National Council for Children's Services (NCCS)	 CEO	 National Council for Children's Services (NCCS)	 info@nccs.go.ke