

Koko Mukuru Yves

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Professional Summary

Data Scientist with an MSc in Business Analytics and expertise in machine learning, predictive analytics, and NLP. Skilled at transforming complex datasets into actionable insights, building interactive dashboards, and deploying AI-driven solutions that improve decision-making and business performance. Experienced in teaching, research, and cross-cultural collaboration with a proven record of measurable impact.

Work Experience

ISP/Bukavu - Teacher Training College, DR Congo

1. Teaching Assistant at the Faculty of Computer Science and Management

May 2021 – Present

- Teach Data Mining, Statistics and Econometrics Courses to 312 plus students in total with a passing rate of over 80% throughout the year.
- Redesigning data related course materials with the responsible Professor to meet the labor market demands in the field.
- Improved student thesis completion rate, include field research when needed from 4 and half months to 3 months through structured supervision.
- Published 3+ peer-reviewed papers on econometrics and data-driven research.

2. Research Secretary Affiliate of the Faculty of Computer Science and management

Feb 2024 – Sept 2024

- Trained 154 participants annually in STATA, EViews, Python, and Excel.
- Coordinated multicultural teams, strengthening collaboration and project delivery.

Led ML projects:

- Deployed churn model that reduced attrition risk by 12% in pilot dataset Customer churn prediction (Random Forest, Gradient Boosting, >85% accuracy).
- Built forecasting models (ARIMA, LSTM, SVR, XGBoost) that achieved 90%+ accuracy in predicting bank performance.
- Built Loan default prediction web app (Streamlit, 50+ users).
- NLP for sentiment analysis, topic modelling, and classification.

3. Research Secretary of the Department of Business Administration

Sept 2022 – Feb 2024

- Organized 16 seminars on research writing, grant applications, and presentations.
- Benchmarked Professors performance to the University policy. The recommendation increased the teaching quality, publications and the student success rate to 86 % from 71% in 2021.

Education

University of Ghana – Accra, Ghana

Sept 2024 – Sept 2025

MSc in Business Analytics (GPA: 3.57/4, Graduation Date : Feb 2026)

Relevant Coursework: Machine Learning, Predictive Analytics, Text Analytics, Data Visualization, BI, AI Applications, Analytics for Finance

Teachers Training College of Bukavu – DR Congo

Oct 2012 – July 2017

Bachelor's in Business Administration & Management

Relevant Coursework: Accounting, Financial Analytics, Marketing, Project Management, Supply Chain Mgmt.

Skills

- o **Technical:** Python (pandas, scikit-learn, spaCy, transformers), SQL, Power BI, Tableau, Excel, NLP, ML deployment (Streamlit, GitHub, Cloud Deployment).
- o **Business:** Stakeholder communication, cross-cultural collaboration, financial analytics.

Certifications (Selected)

- Artificial Intelligence Courses, Force-N Senegal, Université Numérique Cheik Hamidou KANE (Aug 2025 – Apr 2026)
- Deep Learning Indaba – Virtual Participation (Aug 2025)
- Co-Creation Workshop, University of Ghana Business School (Apr 2025)
- Academic Writing, University of Ghana Language Center (Nov 2024)
- Intensive American English Course, U.S. Embassy Bujumbura (Oct 2023 – Apr 2024)

- Competence in Teaching & Learning in Higher Education, DR Congo (Mar 2023)
- African Changemakers Fellowship Program – Cohort 3 (Nov 2019)
- Statistics & Data Analysis with SPSS, Desma Global Leadership Institute (Feb 2020).

Awards & Volunteer Work

- Most Impactful Paragon – DESMA Global Leadership for Statistics & Research (Feb 2020)
- Face of the Cohort – DESMA Global Leadership for Statistics & Research (Feb 2020)
- Volunteer: Youth Forward Congo (January 2017), Civil Society Bukavu (2017–Present), Plasticor DR Congo (May 2018)

Publications

- Emmanuel Awuni, K., Koko Mukuru Yves & Sulemana Bankouru Egala (2026). *Machine Learning Models for Predicting Birth Weight Using Maternal Characteristics* (Ender Review, Data Science and Management Journal).
- Koko Mukuru, Y. et al. (2024). *Willingness to pay for improved access to safe water in Bukavu households, DRC*. Cahiers Africains, No. 103.
- Koko Mukuru, Y. et al. (2023). *Willingness to pay for primary education in Bukavu Town*. CERUKI Revue, No. 67.
- Bisimwa Ngabo, Lambertine Muhanya, Koko Mukuru, Y. et al. (2018). *Climate change and agricultural production in South Kivu, DRC*. Congo Science Revue, 8(1).