IDRISS BADO

Senior Data Analyst — MEL Specialist — Data Scientist—Geospatial Data Scientist—Machine Learning Engineer

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 English (Bilingual), French (Native)

Professional Summary

Proactive and highly motivated Senior Data Scientist and Analyst with **5+ years of experience** in data collection, analysis, and machine learning. Expertise in A/B testing, predictive modeling, project management, and data-driven decision-making. Skilled in working with large multinational teams in dynamic, fast-paced environments, with a strong focus on emerging markets. Experienced in using **Power BI, Excel, SQL, Python, and machine learning models** to drive business insights and improve performance. Fluent in English and French, with a can-do attitude and a client-oriented approach. Passionate about leveraging data to make informed decisions and deliver impactful solutions.

Professional Experience

Senior Data Evangelist   Dec 2023 – Present

Bizao (France, Senegal, Ivory Coast, Morocco, AFC)

- Led the development and deployment of machine learning models to optimize financial services, delivering impactful business insights.
- Drove product improvements using data analytics, leading to a **20% increase in user retention**.
- Applied advanced A/B testing automation in Python to inform operational strategies and enhance product offerings.
- Managed multiple cross-functional teams, ensuring timely project delivery and alignment with business goals.
- Worked with stakeholders to define data strategies and successfully implemented automation processes for anomaly detection.
- **Tools & Technologies**: Python, SQL, Power BI, Elasticsearch, PySpark, Kubernetes, CI/CD.

Senior Regional MEL Data Specialist   Dec 2022 – Dec 2023

TechnoServe (West Africa, East Africa, India)

- Managed data collection and analysis for 10+ projects, improving reporting accuracy by **25%** through data quality protocols.
- Implemented machine learning models in MEL systems, improving prediction speed for project outcomes by **15%**.
- Delivered real-time KPIs to stakeholders through **interactive dashboards**, improving decision-making speed by **20%**.
- Led cross-functional teams in West and East Africa, implementing geospatial data systems and driving resource optimization.
- Managed the Hortimap project in Uganda, utilizing geospatial data to support horticultural crop health assessments and yield forecasting.
- Delivered geospatial analysis in Ethiopia to monitor agricultural outcomes, aiding in more efficient resource allocation.

- **Tools & Technologies**: Python, R, Tableau, Power BI, CommCare, RShiny, GDAL, xarray, Geopandas, QGIS, AWS, GCP.

Senior Data Scientist Manager — Dec 2020 – Dec 2023

RiskLogics

- Led a team in developing machine learning models that **reduced fraud detection time by 30%**, improving risk management operations.
- Spearheaded experiments validating business hypotheses, resulting in a **15% increase in model performance accuracy**.
- Applied **time series and spatial data analysis** to uncover actionable insights, leading to optimized resource allocation and a **10% cost reduction**.
- **Tools & Technologies**: Python, R, SQL, PowerBI, GCP.

Senior Data Science Consultant — Dec 2022 – Mar 2023

Mazars CI

- Led a market study related to the VTC industry, developing surveys, dashboards, and applying machine learning to derive actionable insights.
- Built and optimized dashboards for real-time data visualization and decision-making.

Consultant — Sept 2020 – 2022

INEXA Research Development

- Developed APIs and automated business processes, streamlining task execution and improving operational efficiency.
- Wrote and implemented algorithms for finance software development, improving forecasting and performance.
- Contributed to the software architecture design, including writing Customer Due Diligence (CDD) documentation.

Consultant — Apr 2020 – Sept 2020

Leadway

- Automated business processes by developing **Python tools for pricing models**, improving pricing accuracy by **25%** and reducing manual workload.
- Implemented machine learning algorithms for pricing, resulting in **15% improvement in revenue forecasting**.

Senior Data Direction and Market Analysis — Apr 2021 (3 months)

Indexiom (Remote)

- Conducted an in-depth **market analysis** of the disposable diapers market in Côte d'Ivoire, providing clients with data-backed strategies that boosted market entry success.
- Performed SWOT analyses that identified growth opportunities, driving informed decision-making for clients and increasing potential market share.

Lecturer   **2020 − Present**

CERAP,UIST,CNAM, IUPA, UPB

- Delivered courses on **data science and machine learning**, equipping over 100 Master's students with advanced skills in Python and R.
- Developed and led workshops on **statistical simulation, Times series forecasting** and **bootstrap methods**, improving students' practical understanding of data analysis, NLP, Database implementation.

Senior Consultant   **January 2021 - February 2021**

Kyria-Consulting (Remote)

- Led the **design and development** of a comprehensive **data warehouse** infrastructure, consolidating data from multiple sources for client intelligence and reporting needs.
- Built robust **ETL pipelines** to automate data ingestion and transformation, integrating structured and unstructured data for accurate analysis.
- Spearheaded optimization of **data storage** systems, improving query performance and reducing data retrieval times by 30%.

Reviewer (2014 − 2019)

- **African Journal of Mathematics and Computer Science Research**
- **Journal of Public Health and Epidemiology**
- **Journal of American Academic Research**

Education

- **Master in Number Theory** – Franche-Comté University   2023-2025
  Completed coursework; thesis defense pending for this academic year.
- **MAITRISE in Mathematics** – Aix-Marseille University   2021- 2022
- **Statistical and Economics Engineer** – ENSEA   2020
- **BACHELOR FONDAMENTAL MATHEMATICS** – UNISAT   2014

GitHub Projects

Machine Learning and Data Science Projects

- **PRICINGAPP**: A comprehensive pricing model using advanced statistical techniques in Python. GitHub Link
- **reconnaissance_des_gestes**: Gesture recognition system leveraging computer vision, built in Python for real-time performance. GitHub Link
- **ALM**: Applied graph theory in risk modeling using R for financial analysis and modeling. GitHub Link
- **Machine Learning Class in Python**: A set of tutorials and implementations focusing on key machine learning algorithms. GitHub Link
- **A/B Testing Automation in Python**: Automated A/B testing scripts to streamline experiment analysis and optimize decision-making. GitHub Link

Research Projects at Bizao

- **Best BI Solution for Bizao**
  Developed a tailored Business Intelligence solution to optimize real-time decision-making, providing actionable insights to streamline Bizao's operations and enhance performance tracking across various departments.

- **Data Warehouse System for Bizao**
  Designed and implemented a data warehouse system to consolidate transactional data, improve data accessibility, and enable historical analysis, ensuring scalability to support Bizao's growth.

- **CDC/DAT: Ensuring Data Reliability**
  Conducted Change Data Capture (CDC) and Data Assurance Testing (DAT) to increase data accuracy and reliability, reducing discrepancies and enhancing the integrity of the data pipeline.

- **Impact Analysis of Internet Outages on Bizao's Operations**
  Analyzed the impact of internet connectivity issues on transaction volumes and processing times, providing actionable insights to mitigate revenue loss during outages.

- **Future Traffic Forecasting: Time Series Analysis of Bulk, TA, MM, DCB, and VMC**
  Utilized time series analysis to forecast future traffic trends across multiple services, enabling Bizao to anticipate demand fluctuations and plan infrastructure scalability effectively.

- **Analysis of Transaction Processing Times for Money Transfers in Bizao's Financial Ecosystem**
  Assessed transaction processing times, identifying bottlenecks and optimizing processes to improve user experience and reduce transaction times within Bizao's payment ecosystem.

- **Study on Bizao's Data Challenges**
  Investigated Bizao's data challenges to address data inconsistencies and integration gaps, proposing solutions that improved data quality and supported robust analytics.

Publications

- Bado, Idriss Olivier. (2019). "New Discovery on Goldbach Conjecture." *International Journal of Progressive Sciences and Technologies*, 13(2), pp. 216-221.

- Bado, Idriss Olivier. (2019). "Discovery on Beal's Conjecture." *International Journal of Advance Research And Innovative Ideas In Education*, 5(2), pp. 1634-1640.

- Bado, Idriss. (2020). "Analyse des Déterminants des Exportations Ivoiriennes.ResearchGate"

Technical Skills

- **Languages & Tools**: Python, R, SQL, JavaScript, CommCare, Docker, PowerBI, Tableau,Looker, APPSCRIPT, MongoDB, NoSQL, Redis,GRAPHQL,YAML,XML,HTML,CSS, Elasticsearch, Grafana, Looker, Limesurvey,Linux,Qgis,Sheel,Java,C++,Pyspark,Apache airflow,Dt.

- **A/B Testing**: Expertise in designing, executing, and analyzing product experiments to drive business optimization.

- **Statistical Analysis**: Deep understanding of probability, statistics, hypothesis testing, and exploratory data analysis.

- **Machine Learning**: Proficient in developing models to solve business challenges and enhance predictive capabilities.

- **Data Visualization**: Extensive experience in creating dynamic dashboards and visualizations using PowerBI, Tableau, and Looker.

Key Strengths

- **Problem-Solving**: Strong analytical mindset focused on identifying challenges and providing data-backed solutions.

- **Collaboration**: Proven success working with cross-functional teams to meet business goals.

- **Proactive Leadership**: Demonstrated ability to independently manage projects from conception through to measurable results.

- **Data Storytelling**: Capable of distilling complex data into clear narratives for both technical and non-technical audiences.