Ibrahim Maïga

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OBJECTIVE

Passionate data professional seeking a role with a data-centric organization to leverage my expertise in data science and AI, driving meaningful business outcomes.

HIGHLIGHT OF QUALIFICATIONS

- Possesses strong written and verbal communication skills, with the ability to collaborate effectively across different teams.
- Aptitude to analyze large volumes of data from diverse industries and communicate observations and findings using various reporting tools.
- Experienced in process automation, ETL pipeline design, and database administration.
- Proficient in developing AI solutions, achieving high testing accuracy.
- Effective at leading projects from ideation to execution, ensuring alignment with strategic objectives.
- Strong comprehension of data governance, risk management, and compliance across multiple industries.

EXPERIENCE

Outlier.ai, Remote   **Jan 2025 – Present**

Freelance Applied Mathematician

- Evaluate the factual accuracy and relevance of AI-generated domain-specific text.
- Craft and answer high-quality mathematical questions, ensuring clarity, solvability, and originality.
- Assess, refine, and rank AI-generated responses, identifying strengths and areas for improvement.

Semper8, Toronto, Canada   **Sep 2024 – Dec 2024**

AI Analyst Co-op

- Identified, evaluated, and managed relevant data sources to support data analytics and meet organizational needs.
- Recommended systems, architectures, and data storage technologies to support scalable and efficient analytics.
- Utilized ensemble modeling to combine multiple algorithms, achieving improved predictive performance.
- Developed and presented AI and data solutions to stakeholders, demonstrating value using compelling visuals and metrics.
- Applied legal, ethical, privacy, and security-related standards in data science projects, ensuring the protection of privacy and confidentiality, addressing data bias and transparency, and maintaining data integrity.
- Designed and deployed AI systems within budget, employing the best practices and strategies in design thinking, project management, and lifecycle management.

BMS-SA, Bamako, Mali   **Jan 2022 – Dec 2023**

Financial Analyst

- Developed and maintained financial models, incorporating advanced sensitivity analysis techniques such as scenario analysis and Monte Carlo simulations.
- Produced semiannual financial performance reports, tracking key performance indicators, which helped executives monitor financial health and operational efficiency.
- Conducted business process analysis to optimize financial reporting and reconciliation workflows.
- Developed financial dashboards and reporting frameworks to enhance data-driven decision-making.
- Partnered with IT teams to implement automated financial reporting solutions, reducing manual workload.
- Performed stakeholder analysis and collaborated across departments to align financial processes with business goals.
- Delivered insights through data visualization and presented recommendations to senior leadership.

Orange, Bamako, Mali   **Jan 2021 – Aug 2021**

Data Specialist

- Administered SQL databases, performing routine maintenance, backups, and performance tuning.
- Implemented anomaly detection techniques using R to identify patterns indicative of customer churn, enabling retention strategies.
- Designed multiple web scrapers to gather client questions from Orange Mali websites, Twitter, and Facebook pages, forming a valuable dataset for training and optimizing the company's retrieval-based chatbot.
- Developed and maintained ETL pipelines to integrate data from various internal and external sources, enhancing data integration efficiency through automation.
- Implemented query optimization techniques such as indexing and partitioning, resulting in reduced query execution time and improved system responsiveness.
- Managed the company's data infrastructure, including databases and data warehouses. Ensured data was securely stored, easily accessible, and well-organized.
- Conducted regular audits to ensure data integrity, accuracy, and consistency across all systems.
- Played a key role in migrating legacy database systems to the cloud, enhancing system reliability.

Freelancer.com, Ottawa, Canada   **May 2020 – Oct 2020**

Freelance Financial Data Analyst

- Conducted portfolio performance analysis for investment clients, evaluating historical returns, volatility, and risk measures, leading to optimized asset allocation strategies.
- Utilized Excel to develop financial models, conduct sensitivity analysis, and design automated dashboards for tracking essential financial metrics.
- Employed R for statistical analysis, developing predictive models to forecast revenue growth and expense trends.
- Analyzed large financial datasets to identify trends, correlations, and anomalies, delivering actionable insights.

Affinity Gear, Ottawa, Canada   **Apr 2018 – Aug 2018**

Ecommerce Analyst

- Analyzed website traffic and customer behavior patterns, providing insights to optimize the online shopping experience.
- Developed and maintained dashboards to track key performance indicators, including conversion rates, average order value, customer lifetime value, and cart abandonment rates.
- Conducted A/B testing and multivariate testing to improve user experience.
- Implemented Google Tag Manager and enhanced e-commerce tracking, ensuring proper event tracking and data collection for more comprehensive analysis.

ACN, Ottawa, Canada   **May 2017 – Aug 2017**

Seller

- Sold diverse services, including high-speed internet, landline telephone service, hydroelectricity, and Interact machines, effectively increasing service adoption and customer engagement.
- Achieved strong sales results, earning a promotion to Executive Team Trainer (ETT) in less than a month.
- Trained and mentored new sales representatives, improving team performance and contributing to overall sales growth.

TECHNICAL SKILLS

Programming languages: Python | SQL | R | VBA | LaTeX.

Tools: Excel | Git | Spark | Snowflake | Hadoop | Hive | Power BI | Tableau | SSAS | SSIS | Jira | Confluence.

Cloud Computing Platforms: AWS | Azure | Google Cloud.

TECHNICAL PROJECTS

Analytics Solution for AML Transaction Monitoring

Created an end-to-end ETL pipeline to enhance AML transaction monitoring for financial institutions using AWS services such as Aurora MySQL, Glue, DMS, and Athena. The project includes database migration, ETL processing, and cost-effective querying, with a focus on security best practices and efficient cost management for AML compliance.

Traffic Sign Recognition system with YOLOv8

Constructed an efficient Traffic Sign Recognition system by fine-tuning the YOLOv8 model. Designed for real-time object detection, it identifies and classifies traffic signs to enhance autonomous driving and smart traffic systems.

Cloud-based automated cryptocurrency trading solution

Developed Flypto, an automated cryptocurrency trading platform using advanced predictive modeling and real-time analysis of market news and social media sentiment to optimize trading strategies across seven cryptocurrencies.

Big Data Analysis with PySpark

Built a scalable ETL pipeline for a research project using technologies like Spark, Snowflake, and Hadoop to analyze correlations between weather patterns and societal metrics, such as birth rates and crime statistics, across Canada and the USA, delivering insights to support policy and operational strategies.

Keras and LSTM Networks for Analyzing Airline Customer Sentiment

Designed a deep learning model using Keras and LSTM networks for analyzing airline customer sentiment, achieving high accuracy in predicting positive or negative reviews based on recommendation likelihood.

Data visualization and storytelling using Tableau for Film Production Strategy

Bon Films Inc., a film company, leverages data-driven insights to analyze trends, optimize runtimes, select genre-suited directors, and strategically time releases, enhancing profitability and audience engagement.

Predicting the Success of SpaceX Falcon 9 Landings

A machine learning project predicting SpaceX rocket landing success using classification models and GridSearchCV, featuring data scraping, exploratory analysis, and interactive visualizations to provide cost estimation insights and assess optimal launch site locations.

EDUCATION

George Brown College, Toronto, ON   **2024**

Postgraduate Certificate, Applied A.I. Solutions Development
Major Courses:
> Full Stack Data Science System, Design Thinking for AI, Mathematical Concepts for Machine Learning, Big Data Tools & Techniques, Data Visualization Techniques, Deep Learning II, Machine Learning II.

University of Ottawa, Ottawa, ON   **2022**

Honours Bachelor of Science, Financial Mathematics and Economics
Major Courses:
> Machine Learning Methods, Bayesian Statistics, Categorical Data Analysis, Time Series, Analysis of Experimental Design, Financial Mathematics, Financial Econometrics, Options and Futures, Equity Valuation.

CERTIFICATIONS

AWS Certified Data Engineer Associate

IBM Data Science Professional Certificate