

# Ibrahim Maïga

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DATA ANALYST | AI & DATA ENGINEER

## HIGHLIGHT OF QUALIFICATIONS

- **Technical Stack:** Proficient in building and deploying machine learning models and end-to-end analytics pipelines using Python, SQL, AWS, Azure, Databricks, and Snowflake.
- **Predictive Analytics:** Skilled in developing statistical models and trend analysis to drive strategic decision-making across Finance, Marketing, and Product domains.
- **Data Visualization & Modeling:** Expert in architecting multidimensional data models and executive-level dashboards (Power BI, Tableau) for complex, large-scale datasets.
- **Finance & Compliance:** Deep expertise in finance workflows, accounting hierarchies, and regulatory frameworks including IFRS 17 and Basel II.
- **Data Governance:** Experienced in implementing data security frameworks, lifecycle protection, and automated validation rules to mitigate audit and operational risks.
- **Strategic Communication:** Proven ability to translate complex technical insights into actionable business logic for cross-functional stakeholders and executive leadership.

## TECHNICAL SKILLS

- **Languages:** Python, SQL, VBA, DAX, RegEx.
- **Data Engineering:** PySpark, Snowflake, Hadoop, Hive, SSIS, MongoDB.
- **Cloud Platforms:** Azure, AWS, Google Cloud.
- **Data Modeling:** SSAS, Power Query, Alteryx.
- **BI & Visualization:** Excel, Power BI, Tableau.
- **Tools & Workflow:** Jira, ServiceNow, Git, Confluence, Agile Methodologies.

## PROFESSIONAL EXPERIENCE

**Aviva Canada - Markham, Canada**

**Apr 2024 - Present**

### ***Finance Data Analyst***

- Architects a portfolio of biannual Finance Data Quality Dashboards using SQL to query complex datasets; quantifies multidimensional data health to provide leadership with actionable visibility.
- Develops and executes quarterly reports featuring KPI scorecards, utilizing Python to automate data manipulation and trend analysis against established financial benchmarks.
- Optimizes reporting accuracy by refining data validation rules and collaborating with Finance teams to ensure high-integrity inputs for forecasting models and executive dashboards.
- Manages the Finance Data Issue Log, tracking process bottlenecks through resolution to drive remediation and reduce audit risks.
- Drives quarterly control testing with Risk and Audit teams to reinforce governance frameworks, ensuring 100% audit readiness and alignment with IFRS 17 and Basel II standards.
- Authors and maintains Finance Data artifacts, including SOPs, data maps, and registers, ensuring documentation integrity and alignment with evolving business requirements.
- Governs daily Chart of Account requests via Jira and ServiceNow, maintaining strict data integrity across global financial systems.

**Semper8 - Toronto, Canada**

**Sep 2024 - Dec 2024**

### ***AI Analyst Co-op***

- Fine-tuned BERT and Facebook Prophet AI models for financial sentiment analysis and price trend forecasting, achieving 91.6% accuracy.

- Engineered scalable ETL pipelines to extract data from NewsAPI and Binance, storing structured data in MongoDB for downstream machine learning workflows.
- Architected AWS cloud infrastructure (EC2, Lambda, S3, CloudWatch) to support real-time data ingestion and automated sentiment analysis.
- Authored technical project proposals defining value propositions, implementation roadmaps, and success metrics for AI-driven finance solutions.

#### **BMS-SA - Bamako, Mali**

**Jan 2022 - Dec 2023**

##### ***Financial Analyst***

- Audited financial data integrity using Python, SQL, and Alteryx to validate Chart of Accounts and journal entries, enhancing audit traceability and compliance.
- Automated financial reconciliation dashboards using NetSuite and Power BI, reducing report preparation time by 40%.
- Built Python and VBA automation tools to generate audit-ready reports (Lead Schedules, Legal disclosures), cutting manual effort by 30%.
- Produced semiannual performance reports for executive leadership, tracking revenue and operational efficiency KPIs.

#### **Orange - Bamako, Mali**

**Jan 2021 - Aug 2021**

##### ***Data Specialist***

- Designed data-driven solutions that reduced processing time by 35% through cross-functional requirement gathering and SQL optimization.
- Implemented Row/Column-Level Security in Azure Synapse to enforce data access controls and ensure privacy compliance.
- Authored data dictionaries and metadata catalogs to improve data discoverability across the cloud ecosystem.
- Developed Power BI reports with auto-refreshing gateways, integrating data from SQL Server, Azure DevOps, and ServiceNow using DAX and Power Query.

#### **Affinity Gear - Ottawa, Canada**

**Apr 2018 - Apr 2019**

##### ***Ecommerce Analyst***

- Increased conversion rates by 15% by analyzing user behavior and UX bottlenecks via Google Analytics and Similarweb.
- Managed Google Tag Manager to track 20+ custom events, improving marketing attribution and campaign performance by 30%.
- Executed 10+ A/B tests and multivariate experiments, resulting in optimized checkout flows and a 12% reduction in cart abandonment.

## **EDUCATION**

#### **George Brown College - Toronto, Canada**

**2024**

*Postgraduate Certificate, Applied A.I. Solutions Development*

#### **University of Ottawa - Ottawa, Canada**

**2022**

*Honours Bachelor of Science, Financial Mathematics and Economics*

## **CERTIFICATIONS**

- [\*AWS Certified Data Engineer Associate\*](#)
- [\*IBM Data Science Professional Certificate\*](#)