

# Adama ILBOUDO

Abidjan, Côte d'Ivoire | +225 07 00 15 37 13 | [adama.ilboudo21@inphb.ci](mailto:adama.ilboudo21@inphb.ci) | [LinkedIn](#)

## Professional profile

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Passionate about data analysis and management, I specialize in transforming data into strategic insights. My expertise spans descriptive analysis, explanatory analysis, predictive modeling, machine learning, statistics, and automation. I am also skilled in designing impactful visualizations and intuitive dashboards, enabling informed decision-making. I work effectively with multicultural teams in both French and English.

## Professional experience

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### Data Scientist – Business Analyst

03/2023 - Current

#### Sah Analytics International – Côte d'Ivoire

- Real-time fraud detection for Ecobank: Data exploration, Data cleaning, Machine learning, Anomaly detection, Cosine similarity, Python, SQL, Streamlit, Pandas, Scipy.
- Fraud analysis for Ivorian Customs, capital flight: Data integration, data profiling, data exploration, data cleaning, SQL, KPI definition, visualization using Power BI, Power Query, and DAX.
- Dashboard update for the Ministry of Budget (Côte d'Ivoire): Using Superset.
- POC Dashboards (Ecobank and Coris Bank International: Customers, Performance, Loans; Ministry of Public Service: Employee monitoring), including the definition of relevant KPIs, Data generation via Python, Visualization using Power BI, Power Query, DAX.
- Churn prediction model: Data exploration, Data cleaning
  - Approach 1: Machine learning, Classification algorithms, Python, Scikit-learn, Pandas.
  - Approach 2: Statistical modeling, Deterministic logistic regression, Python.
- Customer segmentation: Data exploration, Data cleaning, Clustering algorithms, Python, Pandas, Scikit-learn.
- Real-time image restoration for video surveillance: Deep Learning, Computer vision, Python, Tensorflow.
- Facial recognition system: Cosinus similarity, Python.
- Incident detection system (Flooding, fire, vehicle accident): Computer vision, Python, Yolo.

### Data Analyst

Feb. – Jul 2022

#### Sanlam Assurance Auto – Côte d'Ivoire

- Performed correlation analyses to improve risk management in auto insurance, using RStudio.
- Data cleaning and transformation to enhance the quality of analyses with RStudio; variable selection and statistical modeling using generalized linear models for robust predictive analyses with RStudio and developed an interactive dashboard with RShiny.

### Statistician

03/2019 – 02/2020

## **Institute of Research in Health Sciences (IRSS) – Burkina Faso**

- Managed the processes of data collection, cleaning, and analysis for public health research projects using Stata.
- Applied advanced statistical methods to conduct descriptive and explanatory analyses with Stata.

### **Technical skills**

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|-----------------------------|---------------------|
| • Data analysis             | • Deep Learning     |
| • Data visualization        | • MS Power BI       |
| • Data integration          | • Python, SQL, R    |
| • Machine Learning modeling | • Web Scraping      |
| • Statistical modeling      | • PostgreSQL, MySQL |

### **Soft skills**

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|-------------------------|-----------------------------|
| • Results-oriented      | • Adaptability & Motivation |
| • Rigor and Proactivity | • Data Privacy Culture      |
| • Teamwork              | • Learning Mindset          |
| • Autonomous            |                             |

### **Education**

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#### **Master's degree in data science – Big Data – Artificial intelligence** 2023

Institut National Polytechnique Felix Houphouët Boigny (INP-HB) – Yamoussoukro - Côte d'Ivoire

Graduated with Honours

#### **Bachelor's degree in Statistic and Computer Science applied to Economy** 2020

Centre Universitaire Polytechnique de Kaya/Université Joseph KI-Zerbo - Ouagadougou - Burkina Faso

Graduated with Honours

### **Certification – Online training**

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|--|------|
| • Financial Reporting in Power BI - DataCamp                                     | 2024 |
| • Marketing Analytics with Python - DataCamp                                     | 2024 |
| • Microsoft Power BI(Badge) - Microsoft  | 2024 |
| • Data Analyst Associate - DataCamp  | 2023 |
| • Ultipa Certified Engineer ( <i>Graph Analysis</i> ) - Ultipa                   | 2023 |
| • Cloud Machine Learning Engineering and MLOps <i>Duke University</i> - Coursera | 2023 |