

# Elhadji Diaraff Diegane DIAGNE

## Data Scientist / BI Developer

✉ [diagnediaraff@yahoo.fr](mailto:diagnediaraff@yahoo.fr)

🏠 Street 178, Fasu Kanu, Bamako, Mali

📞 76299869

### Mobility areas

📍 North Africa  
West Africa  
North America (Canada)

### Abstract

As a Data Scientist, my experiences in project coordination (data collection operations), combined with projects and applications developed (UQTR/ HEC) have made me technically sharp in the mining of massive data (Big Data). I also managed and supervised the work of several teams of investigators in surveys and during the last General Census of Enterprises (2016-2017). I can easily handle a wide range of data mining tools, which has given me a very good flexibility to meet the technical and theoretical needs of project and company managers. I also emphasize my intellectual curiosity, my high level of wit, synthesis and analysis based on attention to detail, rigor and listening skills.

### Diplomas and training

**Master's degree in Applied Mathematics and Computer Science with thesis** [University of Quebec at Trois-Rivieres](#) Trois-Rivières, Quebec, Canada

From January 2018 to September 2019

Research topic: Discriminant Analysis and Multilayer Perception - Formal links and applications

**Machine Learning Module** [HEC of the University of Montreal](#) Montréal, Canada

From September 2018 to December 2018

- Projects and prediction models via : Decision trees, random forests, neural networks, SVM, regression methods;
- Association rules applied to business data.
- Customer segmentation, credit scoring

**Bachelor's degree in Applied Statistics and Computer Science** [Institute for Studies and Training in Statistics and Project Management and Evaluation \(INEFSAGEP\)](#) Dakar, Senegal

From February 2016 to August 2017

**Senior Statistical Technician** [National School of Statistics and Economic Analysis \(ENSAE\)](#) Dakar, Senegal

From October 2013 to July 2015

## Certificates

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### **Python for Data Science** IBM Canada

July 2020

Data processing and visualization

Data manipulation via Numpy and Pandas packages

Machine learning via Keras and Tensorflow.

### **Certification : Machine learning with R** DATA CAMP Quebec, Canada

September 2019

Predictive modeling via R's Tidyverse: Neural networks, decision trees, random forests, model performance comparisons;

Graphical data visualization with ggplot2 package.

### **Certification : Package Tidyverse de R** DATA CAMP Quebec, Canada

From August 2019 to September 2019

Data exploitation via the Tidyverse package and the dplyr and ggplot2 libraries of R.

### **Certification: Introduction to SQL for Data Science** DATA CAMP Quebec, Canada

From April 2019 to May 2019

Manipulation of data and creation of tables of requests on the basis of functions of aggregation (SELECT, FROM, WHERE, GROUP BY, HAVING, INNER JOIN, LEFT JOIN ...)

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## Skills

### **Exploratory statistics**



Linear model, Logistic regression, Discriminant analysis, Analysis of variance (Anova), Multidimensional data analysis (PCA, CFA, MCA), Data processing, Creation of interactive graphs (Dashboard), Automation of CRM and ERP reports

### **Data mining /Machine learning :**



Image recognition, neural networks (multilayer perceptron), decision trees, association rules, gradient boosting, model comparison, random forests.

### **Geomatics**



Area map making, Geo-referencing, Representation of digital data in a map.

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## Professional experiences

### **Data Analyst Fraud and Income Insurance** Orange-Mali Mali

Since November 2020

- Data processing and analysis
- Predictive models to anticipate fraud
- Dynamics dashboard

### **Data Analyst** Montreal School Service Center (CSDM) Montreal, Canada

From August 2020 to November 2020

- Processing, analysing and reporting on educational achievement data;
- Development of online data collection applications

Professional experiences

**Artificial Intelligence Developer** Maritime Innovation Rimouski  
From March 2020 to July 2020

- Processing and analysis of sea level data;
- Forecast and prediction of daily sea level for the stations of Saint-Joseph, Saint-François and Vieux-Québec;

**Research and teaching assistant** Statistics Laboratory in the Department of Mathematics and Computer Science at UQTR Trois-Rivieres, Canada  
Since May 2018

- Implementation of three machine learning applications for comparison of discriminant analysis models and the Multilayer Perceptron (PMC);
- Responsible for assisting undergraduate students in Statistics and Probability.

**Statistician & Regional Coordinator** National Agency for Statistics and Demography Dakar, Senegal  
From February 2016 to January 2018

Management and deployment of field teams;  
Management, processing and analysis of collected data;  
Writing of analysis reports.

**Intern & Statistician Consultant** Poison Control Center (PAC) of the Ministry of Health and Social Action Dakar, Senegal  
From August 2015 to January 2016

- Development of the data entry application, processing and analysis of the collected data.
- Internship topic: Epidemiology of snakebites in the municipalities of Niore and Dioffior; treatments of traditional healers and methods used.

Computer skills

**Data processing software**   
*R, SQL, PYTHON (Pandas, Numpy, Matplotlib), SAS VIYA (SAS Studio SAS Visual Analytics), POWER BI, GOOGLE ANALYTICS, TABLEAU, SPSS, STATA, CSPRO.*

**Logiciels SIG :**   
Arcgis, Qgis et Philcarto

Languages

**French**

**English**

**Wolof**

Hobbies

**Reading, Soccer, Travel**

Références :

**On request**