

# OMAR BADIANE

Dakar Plateau, Dakar, Senegal · +221 77 797 70 29  
[omarbadiane1@outlook.com](mailto:omarbadiane1@outlook.com) · [linkedin.com/in/omar-badiane](https://www.linkedin.com/in/omar-badiane)

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## EDUCATION

**2022**

### **CERTIFICATE: DATA VISUALIZATION FUNDAMENTALS**

In this course taught by Dataquest, we focus on exploratory data visualization. The main visualization library is Matplotlib.

**2021**

### **CERTIFICATE OF COMPETENCY: GETTING STARTED WITH DEEP LEARNING**

In this course taught by NVIDIA DEEP LEARNING INSTITUTE, I improved my understanding on how deep learning works through hands-on exercises in computer vision and natural language processing

**2020**

### **CS50 CERTIFICATE: CS50'S INTRODUCTION TO ARTIFICIAL INTELLIGENCE WITH PYTHON**

CS50 is an introductory on-campus and online course on computer science taught at Harvard University. This course explores the concepts and algorithms at the foundation of modern artificial intelligence.

**2016-2018**

### **ENGINEER'S DEGREE IN COMPUTER SCIENCE AND TELECOMMUNICATIONS, ESMT, DAKAR, SENEGAL**

Dissertation: Machine Learning As A Tool For Optimizing Target Marketing: a case study at FREE Senegal

**2013-2015**

### **2 YEAR OF B.S IN MATHEMATICS, PHYSICS AND COMPUTER SCIENCE, UCAD, DAKAR, SENEGAL**

## EXPERIENCE

**09/2020 – 09/2022**

### **FIBER OPTIC TECHNICIAN, SONATEL**

- Conduct the acceptance of different type of fiber optic networks deployed by suppliers
- Report using Excel and share with project shareholders certain data visualization based reporting templates that can help improve the quality of the fiber optic network deployment.
- Participate to meetings of our team in order to rise issues about the fiber optic network deployment and share ideas to help to solve those issues

**09/2021 – 10/2021**

### **MACHINE LEARNING ENGINEER PART TIME, OMDENA - PRECURE PROJECT**

- Collaborated with different teams working on data collection, data preparation and modelling to help scope the problem and propose solutions based on AI
- I was frequently active on the slack of our project team to ask questions and share ideas in order to improve my contributions
- I was participating in two weekly meetings: the first one with the modelling team and the last one with whole project members where we discuss about our progress in the project and the next step to take
- At the end, I proposed a binary classification model with LGBMClassifier that predicts if users wearing MLI® Elbow (a Precure's product) report pain or not. Despite that the test set was highly imbalanced (1462 examples for "no" and 42 for "yes") our model predicted 28 true positive ("yes") out of 42

01/2019 – 10/2019

**DATA SCIENTIST Intern, SENTEL GSM (TIGO SENEGAL)**

- Made some presentations of Machine Learning to the project stakeholders
- Collaborated with the data warehouse team, the marketing and customers understanding department to define the business problem and how to solve it using Machine Learning
- Developed and modelled databases
- Cleaned, analysed and visualized data to extract knowledge that can make it easier to set up prediction models
- Performed statistical analysis (Exploratory data analysis)
- Developed and implemented a prediction model with Scikit-learn which increased the penetration rate of one of Tigo's products during promotional time

## SKILLS

- |                                   |   |
|-----------------------------------|---|
| • <b>Languages</b>                | Python, SQL, HTML, CSS, C, PHP, Java, JavaScript                                  |
| • <b>Frameworks and Libraries</b> | Scikit-Learn, Pytorch, Keras, Django, Bootstrap, Matplotlib, Dash, Beautiful Soup |
| • <b>Data base</b>                | MySQL, Microsoft SQL Server, MSBI   |
| • <b>Tools</b>                    | Git, Tableau, Power BI, Microsoft Power Point, Spark, Photoshop                   |

## PROJECTS

- **Power BI** : In this presentation, I did several different types of analyses using data from the popular football video game FIFA: <https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:bdabc126-827e-3784-9a09-b0c1630a3b16>
- **Competitions**: My team got 4th rank in recently held IndabaX Senegal 2021 Hackathon by Zindi Africa. The challenge was about predicting the reaction of a partner rider (of Sendy) to an order: <https://zindi.africa/users/SaltigAI/competitions/certificate>
- **Web App**: I did a web app with Django: <https://cool-log.herokuapp.com/>

## ACTIVITIES

- I am an active member of American Center of Dakar.
- I also often participate to some AI meetups to share ideas with people who have the same passion as me.
- I am interested in architecture, photography, football and cinema.