

OMAR BADIANE

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EDUCATION

2021

CERTIFICATE OF COMPETENCY: AI FOR BUSINESS

In this course taught by Cambrian Futures LLC, I learned the fundamentals for building a robust AI use case

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

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

09/2021 – 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

09/2020 – CURRENTLY

FIBER OPTIC TECHNICIAN TEMP, SONATEL

- Validate fiber optic networks deployed by suppliers
- Make reports using excel

- Participate to meetings of our team in order to rise issues about the fiber optic networks deployment and share ideas to help to solve those issues

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

02/2018 – 05/2018

FIBER OPTIC TECHNICIAN Intern, SONATEL

- Provided test reports as dictated by vendor requirements
- Interfaced with customers to re-mediate fiber optic path issues
- Performed site surveys to validate customer's infrastructure deliverable including any issues

SKILLS

- | | |
|-----------------------------------|---|
| • Languages | Python, SQL, HTML, CSS, C, PHP, Java, JavaScript |
| • Frameworks and Libraries | Scikit-Learn, Pytorch, Keras, Django, Bootstrap, Matplotlib, Dash |
| • Tools | Git, MSBI, Publisher, Photoshop, Balsamiq Mockups |

PROJECTS

- 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>
- I did a web app with Django: <https://cool-log.herokuapp.com/>

ACTIVITIES

- I am an active member of a book club (American Center of Dakar), which allows me to improve my reasoning skills and debate.
- 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.