# CHAMI Soufiane Data scientist USA Fulbright Fellow

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> Website LinkedIn

### Summary

• Earned 2 years of experience in applied machine learning to different business areas, from manufacturing and mining industry to finance/banking and later in medicine. Proficient in building models with R and Python.

#### **EDUCATION**

University of North Dakota

Grand Forks ND, USA

M.Sc of Electrical Engineering & Computer science - minor in Bioinformatics

August 2018 - May 2020

École Mohammedia des Ingénieurs

Rabat, Morocco

M.Sc in Industrial Engineering - Supply Chain & Management

Sept. 2014 - August 2017

## LANGUAGES

• **PROGRAMMING**: Python,R, C/C++, CUDA, SQL, Java

Languages: English, French, Arabic

## EXPERIENCE (SELECTED)

## Bioinformatics Graduate Researcher - Machine Learning

University of North Dakota, USA

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Biomedical Engineering Research Complex

August 2018 - Present

- Early Detection Sepsis from Clinical Data: Served as the project leader. The mission is to detect septic patients with blood poisoning based on clinical data. See publications
- ECG-Biometrics Security System: Authenticate individuals based on their heart beats.

Technologies: Python, GitHub, Docker, Google cloud, GPU Parallel computing, linux

Data Scientist

Casablanca, Morocco

BMCE Bank Of Africa Group - SALAFIN

Dec 2017 - June 2018

- Credit Default Risk: setup, design and management of an automated machine learning for credit default risk evaluation in the bank
- o Credit Fraud Detection: Contributed to building an automated loan fraud detection system.
- o Natural Language Processing (R): Text Clustering for Topic Detection

Technologies: Auto-ML with H2O, Spark, R, Python, ETL programming, Shell scripting

Data Scientist

Casablanca, Morocco

OCP Group SA Feb 2017 - June 2017

- **Predictive Maintenance**: I developed a machine learning model to predict failures events of routing machines in the plant. The data-set was based on the working conditions and failure events history of the routing machines.
- Data visualization: I developed a web application to be available online (with R-shiny) and integrated with the original website of the predictive maintenance in the plant.

**Technologies:** R, R-shiny, Data Visualization with R, ETL programming

## RESEARCH PUBLICATIONS IN MACHINE LEARNING - FIRST AUTHOR

- Conference Paper: "Early Prediction of Sepsis: Comparative study between Boosting Trees and survival LSTM". Computing in Cardiology Conference PhysioNet 2019, USA, Singapore [Abstract] [Full Paper]
- Thesis: "Applied IoT & Survival Analysis for the predictive Maintenance in the plants of OCP Group". June 2017, Ecole Mohammedia des ingénieurs, MED V University, Rabat, Morocco.

# AWARDS AND COMMUNITY SERVICES (SELECTED)

- o Google Scholarship Sepsis Research:
- Fulbright Scholarship:
- o 3rd champion of the worldwide contest in South Africa:
- o Team Leader:

San Francisco , 2019-Present

Morocco, 2017-Present

ENACTUS Morocco , 2014 - 2015

Engineering Schools Forum, 2014 - 2017