# Soufiane Chami Data Scientist USA Fulbright Fellow

 $\begin{tabular}{ll} \textbf{Soufiane.chami@und.edu}\\ \textbf{Website}\\ \textbf{LinkedIn}\\ \textbf{Kaggle} \end{tabular}$ 

## Summary

Data scientist with mid-level experience in developing machine-learning-based software using R and Python. Successfully managed analytics projects in industry and academia from conception to production.

## **EDUCATION**

# University of North Dakota

M.Sc in Computer science & Electrical Engineering

# École Mohammedia des Ingénieurs

B.Sc in Applied Mathematics - Minor in Statistics

Grand Forks ND, USA

August 2018 – Present Rabat, Morocco

Sept. 2012 - August 2017

## EXPERIENCE (SELECTED)

#### Graduate Research Assistant

University of North Dakota

University of North Dakota, USA

August 2018 - Present

- Churn Prediction in Clinical Context: Design of machine learning model to detect patients with blood poisoning, sepsis, based on clinical data 6 hours earlier than a doctor. My results are published in the CinC 2019 Conference in Singapore.
- Energy Efficiency: Through a retrofitting model, I worked on building a scalable gradient boosting machine model to predict energy consumption per building in different locations using python.[PDF]

Technologies: Python, GitHub, Docker, Google Cloud, Parallel computing, ETL, Visualization, Linux

Data Scientist

Casablanca, Morocco

BMCE Bank Of Africa Group - SALAFIN

Dec 2017 - June 2018

- Credit Default Risk: Designed and deployed new machine learning system for Credit Default Risk and Credit Loss Evaluation. I accomplished performance of 80% for Credit Risk, and I achieved 90% for Credit Loss on some financial products and at least 70% on most of them. Resulted in cutting \$1.0M in financial credit losses.
- Credit Fraud Detection: Contributed to building an automated loan fraud detection system.

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

# Data Scientist - Co-op

OCP Group SA

Casablanca, Morocco

Feb 2017 - June 2017

• Predictive Maintenance: As a data scientist, I designed and deployed a new system to predict failures events of critical routing machines in the plant using R. Model performance achieved over 80%.[Thesis] [GitHub]

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

#### Programming Skills

• Languages: Python, R, SQL, C/C++, CUDA, Java Tools: Google Cloud, Docker, AWS, Spark, Hadoop

### RESEARCH PUBLICATIONS - FIRST AUTHOR

• Peer-Reviewed Conference Paper: Soufiane Chami, Kouyar Tavakolian, "Gradient Boosting Machine for Early Prediction of Sepsis Using Clinical Data". CinC 2019, USA, Singapore [Abstract], [Full Paper]

#### AWARDS (SELECTED)

• NSF Student Award for IEOM Society:

Toronto, Canada, 2019

• Google Grant - Sepsis Research:

San Francisco, USA, 2019

• Fulbright Scholarship:

Rabat, Morocco, 2017

• Graduate Student Award - Excellence in Entrepreneurship :

Johannesburg, South Africa, 2015