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

Grand Forks ND, USA

M.Sc in Electrical Engineering & Computer science

August 2018 - Present

Rabat, Morocco

École Mohammedia des Ingénieurs

B.Sc in Math & Physics - M.Sc in Industrial Engineering

Sept. 2012 - August 2017

EXPERIENCE (SELECTED)

Graduate Researcher - Machine Learning (ML)

University of North Dakota, USA

Biomedical Engineering Research Complex

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.
- o ECG-Biometrics Security System: Designing ML approach to authenticate individuals based on heartbeats
- Energy Efficiency: Through a retrofitting model, I worked on building a scalable model to predict energy consumption per building in multiple locations.

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: 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

Casablanca, Morocco

OCP Group SA

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. 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

o Graduate Student Award - Excellence in Entrepreneurship :

Johannesburg, South Africa, 2015