Soufiane Chami Data Scientist US Fulbright Alumni

soufiane.chami@und.edu linkedin.com/in/soufiane-chami soufianedatafan.github.io

SUMMARY

Data scientist with 3 years of experience in developing machine-learning-based software using R and Python. Successfully managed data analytic projects in industry and academia from conception to production.

EDUCATION

Master of Science in Electrical Engineering & Computer science

July 2020

University of North Dakota

Grand Forks ND, USA

Bachelor of Science in Applied Mathematics - Minor in Statistics École Mohammedia des Ingénieurs

August 2017

Rabat, Morocco

EXPERIENCE (SELECTED)

Machine Learning - Graduate Research Assistant

August 2018 - Present

University of North Dakota

Grand Forks ND, USA

- o Classification of Cardiac Anomalies: Currently contributing to the PhysioNet 2020 Project at UND to develop a +100 Multi-label Time-series classification model based on Deep learning. In this project, we are trying to detect more than +100 labels of heart diseases (ECG abnormalities).
- 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 paper and results are published in the CinC 2019 Conference in Singapore. [PDF] [Code]
- Deep Energy Retrofit: for my second paper, I worked on building a scalable machine learning 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

Dec 2017 - June 2018

BMCE Bank Of Africa Group - SALAFIN

Casablanca, Morocco

- o Financial Risk Management: As a data scientist, I 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.
- o Credit Fraud Risk Management: I contributed to building an automated loan fraud detection system by conducting fraud cases assessment and audit and establishing a robust training and testing data.

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

Data Scientist - Co-op

Feb 2017 - June 2017

OCP Group SA

Casablanca, Morocco

o Predictive Maintenance: As a data scientist, I designed and deployed a machine learning system to predict failures of critical routing machines in the plant using R. Model performance achieved over 80%.[PDF] [Code]

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

Awards (Selected)

• Graduate Student Award - Excellence in Entrepreneurship :

Johannesburg, South Africa, 2015

Fulbright Scholarship:

Rabat, Morocco, 2017

Google Grant - Sepsis Research:

San Francisco, USA, 2019

NSF Student Award for IEOM Society:

Toronto, Canada, 2019