Soufiane Chami
Data Scientist
US Fulbright Alumni

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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 Computer science & Electrical Engineering — July 2020
University of North Dakota — *Grand Forks ND, USA*

Bachelor of Science in Applied Mathematics - Minor in Statistics — August 2017
École Mohammedia des Ingénieurs — *Rabat, Morocco*

EXPERIENCE (SELECTED)

Analytics Consultant - COO Office — September 2020 - Present
Sultan Center Group — *Kuwait City, Kuwait*

- **Dynamics Pricing Strategy**: Designed and Deployed an automated dynamic pricing engine with machine learning to help the company make data-driven strategy for pricing. Model contributed with 3 points in GP increase annually.
- **Machine Learning Infrastructure**: Wearing two hats. First, as a data scientist, I work on data modeling and demand forecasting. Second, as a software engineer, I worked on API serving, ML pipeline automation, and orchestration (aka MLOps)
- **Machine Learning Monitoring**: Developed a Dashboard to monitor analytic models, automate reporting of the pricing campaigns, and visualize data and KPIs.

   Technologies: Unsupervised learning, time series forecasting, Containerization, dash-plotly, Linux

Machine Learning - Graduate Research — August 2018 - August 2020
University of North Dakota — *Grand Forks ND, USA*

- **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, Linux

Data Scientist — Dec 2017 - June 2018
BMCE Bank Of Africa Group - SALAFIN — *Casablanca, Morocco*

- **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.
- **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

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*