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

 $\rm Dec~2017$ - 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

Data Scientist - Co-op

Feb 2017 - June 2017

OCP Group SA

Casablanca, Morocco

• 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

AWARDS (SELECTED)

- $\ \, \circ \ \, \textbf{Graduate Student Award Excellence in Entrepreneurship}: \\$
- $\circ \ \ \mathbf{Fulbright} \ \mathbf{Scholarship} :$
- $\circ\,$ Google Grant Sepsis Research:
- $\circ\,$ NSF Student Award for IEOM Society:

 $Johannesburg,\ South\ Africa\ ,\ 2015$

 $Rabat,\ Morocco\ ,\ 2017$

San Francisco , USA, 2019

Toronto, Canada, 2019