Soufiane Chami Data Scientist USA Fulbright Fellow

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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

Master of Science in Electrical Engineering and Computer science

May 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)

Graduate Research Assistant

August 2018 - May 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, ETL, Visualization, 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

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

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)

• 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