CHAMI Soufiane 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

University of North Dakota

Grand Forks ND, USA

M.Sc of Electrical Engineering & Computer science

August 2018 - May 2020

École Mohammedia des Ingénieurs

Morocco

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

- o ECG-Biometrics Security System: Designing ML approach to authenticate individuals based on heartbeats
- Churn Prediction in Clinical Context: Design of machine learning model to detect patients with blood poisoning based on clinical data 6 hours earlier than a doctor. Our results are published in CinC 2019 Conference
- Energy Management: Times series forecasting to estimation energy consumption per household.

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: Docker, Google Cloud, AWS, Spark

RESEARCH PUBLICATIONS - FIRST AUTHOR

- Peer-Reviewed Conference Paper: Soufiane Chami, Kouyar Tavakolian, "Early Prediction of Sepsis from Clinical Data Using Single Light-GBM model". CinC 2019, USA, Singapore [Abstract], [Full Paper]
- Graduate Thesis: "Machine Learning Decision-Making Tool for Predictive Maintenance". Soufiane Chami, Nizar El-Hachemi, June 2017, Ecole Mohammedia des ingénieurs, MED V University, Morocco. [Thesis]

AWARDS (SELECTED)

- NSF Student Award for IEOM Society:
- Google Scholarship Sepsis Research:
- Fulbright Scholarship:
- Till 11 Cl 1 1 1:

Toronto, Canada, 2019

San Francisco, USA, 2019

Rabat, Morocco, 2017

• Graduate Student Award - Excellence in Entrepreneurship :

Johannesburg, South Africa, 2015