CHAMI Soufiane Data scientist USA Fulbright Fellow

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Summary

• Earned 2 years of experience in applied machine learning to different business areas, from manufacturing and mining industry to finance/banking and later in medicine. Proficient in building models with R and Python.

EDUCATION

•	University of North Dakota	Grand Forks ND, USA
	$M.Sc\ of\ Electrical\ Engineering\ &\ Computer\ science\ -\ minor\ in\ Bioinformatics$	$August\ 2018-May\ 2020$
•	École Mohammedia des Ingénieurs	Morocco
	M.Sc in Industrial Engineering - Manufacturing & Supply Chain Management	Sept. 2014 – August 2017

LANGUAGES

• PROGRAMMING: Python,R, C/C++, CUDA, SQL, Java Languages: English, French, Arabic

EXPERIENCE (SELECTED)

Bioinformatics Graduate Researcher - Machine Learning (ML) University of North Dakota, USA
Biomedical Engineering Research Complex August 2018 - Present

- ECG-Biometrics Security System: Designing a ML Approach to authenticate individuals based on heartbeats
- Churn Prediction in Clinical Context: Served as the project lead. The mission is to detect patients with blood poisoning based on clinical data 6 hours earlier than a doctor. I published our findings in CinC 2019 Conference.

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 an new machine learning system for Credit Default Risk and Credit Loss Evaluation. I accomplished a 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 Feb 2017 - June 2017

- OCP Group SA

 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]
 - **Deployment**: I developed a web application to be available online (with R-shiny) and integrated with the original website of the predictive maintenance in the plant.

Technologies: R, R-shiny, Data Visualization with R, ETL programming

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 AND COMMUNITY SERVICES (SELECTED)

- NSF Student Funding Award for IEOM Society:
- Google Scholarship Sepsis Research:
- Fulbright Scholarship:
- 3rd World Champion ENACTUS:

Toronto, Canada, 2019

San Francisco, 2019

Morocco , 2017

Johannesburg, South Africa, 2015