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
	$M.Sc\ of\ Electrical\ Engineering\ \ \mathscr{C}\ Computer\ science\ -\ minor\ in\ Bioinformatics$	$August\ 2018-May\ 2020$
•	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 ML Approach to authenticate individuals based on heartbeats
- o 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 Technologies: Python, GitHub, Docker, Google Cloud, GPU Parallel computing, Linux

Data Scientist Casablanca, Morocco Dec 2017 - June 2018

BMCE Bank Of Africa Group - SALAFIN

- o 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 OCP Group SA

Casablanca, Morocco Feb 2017 - June 2017

- o 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: Dashboard creation and design highlighting key performance indicators of maintenance solution (with R-shiny)

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

RESEARCH PUBLICATIONS - FIRST AUTHOR

- Peer-Reviewed Conference Paper: Soufiane Chami, Kouyar Tayakolian, "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:
- Graduate Student Award Excellence in Entrepreneurship :

Toronto, Canada, 2019

San Francisco, 2019

Morocco, 2017

Johannesburg, South Africa, 2015