

**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.

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## 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*

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## LANGUAGES

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

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## EXPERIENCE (SELECTED)

- **Bioinformatics Graduate Researcher - Machine Learning (ML)** University of North Dakota, USA  
*Biomedical Engineering Research Complex* *August 2018 - Present*
  - **Churn Prediction in Clinical Context:** Served as the project leader. The mission is the early detection of septic patients with blood poisoning based on clinical data. See publications section
  - **ECG-Biometrics Security System:** ML Approach to authenticate individuals based on their heartbeats.

**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:** setup, design and management of an automated machine learning for credit default risk evaluation in the bank
  - **Credit Fraud Detection:** Contributed to building an automated loan fraud detection system.
  - **Natural Language Processing (R):** Text Clustering for Topic Detection

**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:** I developed a machine learning model to predict failures events of routing machines in the plant. The data-set was based on the working conditions and failure events history of the routing machines.
  - **Data visualization:** 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

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## 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, Rabat, Morocco.

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## AWARDS AND COMMUNITY SERVICES (SELECTED)

- **NSF Student Funding Award for IEOM Society:** *Toronto, Canada, 2019*
- **Google Scholarship - Sepsis Research:** *San Francisco , 2019*
- **Fulbright Scholarship:** *Morocco , 2017*
- **3rd World Champion ENACTUS:** *Johannesburg, South Africa , 2015*