

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** Rabat, Morocco
M.Sc in Industrial Engineering - 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** University of North Dakota, USA
Biomedical Engineering Research Complex *August 2018 - Present*
 - **Early Detection Sepsis from Clinical Data:** Served as the project leader. The mission is to detect septic patients with blood poisoning based on clinical data. See publications
 - **ECG-Biometrics Security System:** Authenticate individuals based on their heart beats.

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** 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

RESEARCH PUBLICATIONS IN MACHINE LEARNING - FIRST AUTHOR

- **Conference Paper:** "Early Prediction of Sepsis: Comparative study between Boosting Trees and survival LSTM". Computing in Cardiology Conference PhysioNet 2019 , USA, Singapore [[Abstract](#)] [[Full Paper](#)]
- **Thesis:**"Applied IoT & Survival Analysis for the predictive Maintenance in the plants of OCP Group". June 2017, Ecole Mohammedia des ingénieurs , MED V University, Rabat, Morocco.

AWARDS AND COMMUNITY SERVICES (SELECTED)

- **Fulbright Scholarship:** *Morocco , 2017-Present*
- **3rd champion of the worldwide contest in South Africa:** *ENACTUS Morocco , 2014 - 2015*
- **Team Leader:** *Engineering Schools Forum, 2014 - 2017*
- **Boy Scout:** *Scouts of Morocco Association, 2008 - 2012*