






# Mohammed Sabri

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## EDUCATION

- **Università degli studi della Campania Luigi Vanvitelli** Caserta, Italy  
*Ph.D. Candidate in Machine Learning* September 2020 - Present
- **Paris Nord (Paris XIII) University** Paris, France  
*M.Sc Data Science and Business Intelligence* September 2018 - June 2019
- **Faculty of Sciences Dhar EL Mahraz** Fez, Morocco  
*M.Sc Applied Mathematics and Data Science* Septembre 2018 – Juillet 2019
- **Chouaib Doukkali University** EL Jadida, Morocco  
*Bachelor's Degree in Applied Mathematics* September 2016 - June 2017

## EXPERIENCE

- **BMCE Bank Of Africa Group - SALAFIN** Casablanca, Morocco  
*Data Scientist* September 2019 - June 2020
  - **Financial Risk Management:** As a data scientist, I 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.
  - **Tools:** Auto-ML with H2O, Spark, R, Python, ETL programming, Shell scripting.
- **EVEAD Group** Casablanca, Morocco  
*Machine Learning - Graduate Research* March 2019 – July 2019
  - **Subject:** Development of an AI system capable of segmenting users according to their areas of interest.
  - **Tools:** Python.
- **OCP Group** Casablanca, Morocco  
*Final Practicum Master* August 2018 - September 2018
  - **Subject:** Implementation of a decision support solution allowing the construction of KPI's.
  - **Tools:** Microsoft BI(SSIS, SSAS SSRS).

## PUBLICATIONS

- **IES 2022:** Invited Talk at the Innovation and Society 5.0: statistical and economic methodologies for quality assessment, January 27, 2022 – January 28, 2022, Capua (Italy). Presentation: Classification of ECG signals based on functional data analysis and machine learning techniques.
- **DSSV-ECDA 2021:** Data Science, Statistics and Visualisation (DSSV) and the European Conference on Data Analysis (ECDA), July 7 – July 9, 2021. Presentation: Exploiting clustering to improve the performance of a functional classifier: An application to ECG data using a new semi-metric.

## PROJECTS

- **Demand Forecasting and Price Optimization:** Used regression trees to estimate historical lost sales and predict future demand for new products The pricing problem was formulated as an integer problem to meet the demands.
- **Sentimental Analysis of Tweets:** Fetched tweets of users based on the trending hashtag in an online fashion and analysed the opinion of the public regarding the topic.
- **Intelligent recommendation System:** Realization of a film recommendation system based on user preferences and data through machine learning algorithms (K-Means, KNN, Random Forest).
- **ECG Heartbeat Classification:** Classification different arrhythmia types on ECG using Neural Networks

## SKILLS SUMMARY

- **Technical Skills:** Machine Learning, Data Visualization, Big Data, Data Mining
- **Programming Languages:** Python, R, Java, Scala, AWS Cloud (SageMaker, EC2)
- **Data Integration:** Talend (TOS, TAC), Stack Microsoft (SSIS, SSAS), Informatica V9
- **Data Analysis:** Data Cleaning with Python; Data Exploratory Analysis with R Python
- **DataViz:** Tableau, Power BI, SSRS
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## LANGUAGES

- Arabic : Native, written, and spoken
- English : Written and spoken
- French: Written and spoken