Baklouti Marouan | Curriculum Vitae

Rue Moez Ibn Badis , La Soukra , Tunis ,2036

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Born December 3, 1994 in Strasbourg, France , an engineering student in the final year at the School of Statistics and Information Analysis of Tunis,

FUNCTIONAL SKILLS

- Time Series
- Bayesian statistics
- Markov chains
- Multidimensional data analysis
- Neural networks
- Data Mining
- Data visualization
- Econometric modeling
- Deep Learning
- Geographical databases

TECHNICAL SKILLS

Languages

R, SAS, Python, PHP, SQL, NoSQL, HTML, LATEX,JAVA

Frameworks and packages

Keras, Tensorflow, Eviews(Statistical package), SPSS Analytics, Pytorch , scikit learn, Rshiny,

software and Development environments

R studio, SAS, MATLAB, Spyder, Microsoft Office

Academic Training

- **baccalaureate degree in mathematics** — **Sfax,Tunisia**
  15 November 1955 High school — *2012–2013*
- **Preparatory Cycle Mathematics-Physics** — **Sfax, Tunisia**
  Preparatory Institute for Engineering Studies of Sfax — *2013–2015*
- **ngineering curriculum** — **Tunis,Tunisia**
  igher School of statistics and data analysis — *2016–2019*

Internships and Projects

Internships

- **Satellite images Restoration with a particle filter** — **Calais,France**
  Signal and Image Computer Laboratory of the Opal Coast — *June 2017–September 2017*

  Within the department 'Images and Deep Learning ', the work developed consisted of the construction and the implementation of a particle filter, also known by sequential Monte Carlo filter , to the noisy images captured by the Sentinel Satellite 2-A. The idea of the filter implementation is to estimate the posterior density of the pixels assuming that all the pixels form a Markov chain.

- **Estimation and prediction of the Propagation-Loss Parameters** **Tunis,Tunisia**
  Telcotec *June 2018–September 2018*
  the work developed consisted on constructing a new linear-regression model for the estimation of the path-loss exponent and the parameters of the shadowing from the propagation-loss data collected by the mobiles with respect to their serving base stations. After validation of the model, a cartography interface was constructed to visualize the propagation-loss prediction in Tunis.

Projects

- **Principal Component Analysis.** **Tunis,Tunisia**
  Higher School Of Statistics And Data Analysis *March 2017–April 2017*
  The project was to study the factor of undernourishment of African countries by a PCA. First, we proceeded by setting up a map to explore the data. Second, we proceeded by analyzing the main causes of undernourishment based on the correlation of variables.
  URL of the application : `https://marwenbaklouti.shinyapps.io/projet_acp/`
- **Tensor-flow Project** **Tunis**
  Higher School Of Statistics And Data Analysis *November 2017*
  The project consisted in establishing a logistic regression, based on the construction of a neural network, driven on the observations of the data set, to get a logit model that will help classify and predict the creditworthiness of clients in a German bank.
- **Tunisian Economy Analysis** **Tunis,Tunisia**
  Higher School Of Statistics And Data Analysis *January 2017 – April 2017*
  As part of the end-of-year project, the project consisted of a comprehensive market study Tunisian financial sector, including Stock markets and banking indices.
- **Geographic Information System** **Tunis,Tunsia**
  Higher School Of statistics And Data Analysis *January 2018 – April 2018*
  As part of the end-of-year project, the work was to set up a geographical information system which is searchable, based on raster data, and the definition of geographic coordinate systems.
- **Machine Learning Application** **Tunis,Tunsia**
  High School Of Statistics And Data Analysis *April 2018 – May 2018*
  Using R shiny , an Interactive application was constructed to do an uni-variate and bi-variate analysis of the explanatory variable, and the application of some Data mining algorithms the predict the variable of interest
  URL of the application : `https://marwenbaklouti.shinyapps.io/projet_machine_learning/`

Hobbies

- History
- Sports (Soccer in particular)
- Cinema (movies inspired by real events in particular)
- Economic reflection ("the invisible Hand"–Adam Smith , game theory– John Nash)