



Damoun FAROUK

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH: Ksar El Kebir, North Of Morocco, Morocco | 22 years old
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WORK EXPERIENCE

- FEB-JULY 2017 *LIMS Laboratory, Fez, Morocco*
- *Research master thesis on advanced statistics and machine learning*
- Processing dependent data using resampling techniques based on a nonparametric method of statistical inference.
 - Work on resampling techniques for dependent data to get the most efficient (Bias-variance tradeoff): bootstrap and block bootstrap.
 - Perform an empirical comparison of all block-bootstrap methods.
 - Benchmarking all existing block-bootstrap methods and compare results with the last empirical study by Lahiri [Ann. Statist. 27 (1999) 386–404].
** Lahiri investigated four block bootstrap methods
 - Empirical verification of a theoretical theorems of block-bootstrap, confirm and affirm others.
 - Develop, test and implement an R package for all existing block-bootstrap methods with parallelism (two levels of parallelism).
 - Deploy, support, maintain and document our R package functionalities on CRAN repository.
- SUMMER 2016 *Tsinghua University, Beijing, China*
- *R&D in Department of Computer Science and Technology*
Embarked on a big-data course that deepened my knowledge in:
- Graph Algorithms and Road Network Algorithms including shortest path, pageRank, strongly and weakly connected components.
 - Supervised Machine Learning including Perceptron, Bayesian classification, DT and SVM.
 - Unsupervised Machine Learning including K-means, Gaussian mixtures and PCA.
 - Deep Learning including recent advances on image understanding, multimodal data analysis and natural language processing.
 - Graph Computing and GraphLab.
 - Spark and In-Memory Computing.
- Moreover, we were able to apply the theory into real-life situations with real data from Didichuxing (滴滴出行), China's leading car-hailing company.

- APR-JUN 2016 | *Enhance Technology Society*, IFRANE, Morocco (Academic internship)
 - *KDD (Knowledge Discovery in Databases) in e-Gov Project*
- Goal: Creating a Data Warehouse for The register Office
 - Data Warehouse: Data Marts, OLAP cube and ETL + Reporting
 - Reference: The Data Warehouse Toolkit, 3rd Edition, Kimball
 - Language: SQL
 - Data: E-gouvernement Data
- DEC 2015 | *Sofafer Society*, FEZ, Morocco (Academic internship)
 - *BPMN (Business Process Model and Notation) Analyst of Enterprise Architecture*
- Goal: Social Modeling for Requirements Engineering
 - Modeling: Establishing and analyze Sofafer Business Models
 - Framework: The Zachman Framework and i* different models
 - Language: XML- Oracle BPMN 2.0 [WYSIWYG]
- APR-SEPT 2015 | *Omnixys Society*, TANGIER, MOROCCO
 - *Web Developer (E-Learning)*
- Goal: Creation of E-learning platform for a University
 - Framework: Django and Zend // Learning management system: Moodle and OpenEdx
 - Language: Python (Django) - MongoDB - SQL - PHP- HTML/CSS

EDUCATION

- OCT 2015 - JULY 2017 | Master of Big Data Analytics And Smart Systems
 SIDI MOHAMED BEN ABDELLAH UNIVERSITY, Fez, Morocco
 Thesis: "An Empirical Comparison of Block-Bootstrap and Developing R package for Block-Bootstrap Algorithms,for advanced statistics and machine learning" .
- OCT 2014 -JULY 2015 | Undergraduate in Computer Science (Bachelor)
 ABDELMALEK ESSAADI UNIVERSITY, Tangier, Morocco | Final Grade GPA: 3.2/4
 Thesis: "R&D of e-learning plateforms and their intergration into the Moroccan digital world"
- OCT 2012 -JULY 2014 | Diploma of University Studies of Science and Technics
 ABDELMALEK ESSAADI UNIVERSITY, Tangier, Morocco
- JUN 2012 | High school diploma in Experimental Sciences,
 AHMED ERRACHIDI HIGH SCHOOL, Ksar El Kebir, Morocco | Final Grade GPA: 3.04/4

Actual Job Title

- Feb 2018 - Now. | Research engineer, TICLab, HowDrive Project
 International University of Rabat, Morocco
 National Center for Scientific and Technical Research - CNRST

PROFESSIONAL MEMBERSHIPS

Member in IEEE Student Branch Fez Morocco

Member in IEEE Computer Society

- ex-Member in Administrative Committee of IEEE Student Branch Fez Morocco (Oct 2015 - July 2017)

- ex-Member In BIG DATA FSDM CLUB (Oct 2015 - July 2017)

SCHOLARSHIPS AND CERTIFICATES

OCT. 2017 Member of the organization committee for the 1st International Deep Learning Week at **ENSIAS, Rabat** as the best participant of Big Data Training Workshop 2016.

SUMMER 2016 I got a scholarship for undergraduate students with an outstanding curriculum at **Tsinghua University (清华大学), Beijing, China** (Big Data Summer School)

MAI. 2016 Selected to participate at the Big Data Training workshop **National Higher school ENSIAS, Rabat** with a partial-scholarship.

LANGUAGES

ARABIC: Native speakers

ENGLISH: Full Professional Proficiency (Level : B1, Aptis | British Council)

FRENCH: Fluent (Level : C1, Test | CIEP)

COMPUTER SKILLS

Linux/UNIX - Shell - R, SAS/PROC, HBase , Hive, Pig
HADOOP, HDFS, MAPREDUCE, SPARK, SCALA - MySQL, NoSQL, MongoDB
Python (Scikit-Learn - Numpy - Pandas - RegEx - Matplotlib)
C/C++, JAVA, Python(Django), PHP, SQL, APIs & RESTful Interface (for Big Data)

AREAS OF EXPERTISE

Bad Data	Data Cleaning	Regular Expression	Features Engineering	NLP
Factor Analysis	SAS, RStudio, Jupyter	Relational Databases		
Data Warehousing Systems	Data Analysis	Deep Learning	Machine Learning	
Neural Network	Big Data Architect	Data Engineering		

PERSONAL SKILLS

Calm - Motivated - Analytical - Energetic - Flexible - Adaptable - Responsible - Practical

INTERESTS AND ACTIVITIES

Technology - Data Science - Open-Source Solution - MOOCs - IT Books - IT Innovation
Open-Source Programming - Travelling - Discovering new cultures - Countries