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https://bit.ly/3c1JaL6

Passionate about **Data Science**  
and new **Technologies**



# AYOUB BERDEDDOUC

## DATA SCIENTIST

LISTENING TO THE MARKET



### ABOUT ME

Highly accurate **Data Scientist** adept at collecting, analyzing, and interpreting large datasets, developing new forecasting models, and performing data management tasks. Possessing extensive analytical skills, strong attention to detail, and a significant ability to work in team environments, **Ayoub** is presently looking for a Data Scientist position with a forward-moving company.



### EXPERIENCES

#### Data Analyst

Jan 2020 - Present

**Aiox-Labs at Rabat, Morocco.**

**Mission :** Smart Customer App/ Dashboard for a banking group

**Technologies :** Python, D3.js , MongoDB, html5,css3, JS.

**Tasks :**

Create Many D3.js charts for KPIs & Reporting Dashboard

Structure data via MongoDB

Machine learning.



### INTERNSHIPS & PFE

#### Data Scientist Intern

Apr - Sep 2019

**SOFT CENTRE at Casablanca, Morocco.**

**Mission:** Implementation of a support recommendation system in the multimodal on-the-fly mobility segment.

**Technologies :** Jupyter Notebook, Biblios Python (Numpy,Matplotlib,Pandas, Dask,Geoencoder,-Geohash), Machine Learning, Recommender System, Git/GitLab.

**Implementation:**

\* Benchmark of open source AI tools (Framework / Models / API Cloud)

\* Acquisition and preprocessing of massive historical trip data ( Driver / Passenger )

\* Use of the Dask library for parallel computation.

\* Establishment of a Recommendation System for the most relevant Pick-up Points.

#### PFE

Feb - Jun 2016

**Labo RESI at Meknes, Morocco.**

**Mission :** Implementation of the HDMRP routing protocol in the Castalia wireless network simulator (WNS).

**Technologies :** C/C++, Omnet++, Castalia,linux(OS).



### EDUCATION

#### PH.D.

Dec 2019 - Present

**LISAC (former LIAN) at Sidi Mohamed Ben Abdellah University, Fès, Morocco**

#### MASTER 2

2018-2019

**Exploration Informatique des Données et Décisionnel at Paris 13 University, Paris, France**

#### MASTER

2017-2019

**Web Intelligence & Sciences Données at Sidi Mohamed Ben Abdellah University, Fès, Morocco**

#### BACHELOR

2015-2016

**Mathematical and computer science at Moulay Ismail University, Meknes, Morocco**



### ACADEMIC PROJECTS

#### ML / DL Algorithms implementation

\* Clustering / regression Algos : k-NN, K-Means, CAH, Naive Bayesian, Linear Regression, GD, & SGD

\* Adaline, Perceptron & MLP

\* Notions and examples executed on Matlab of Self Organize Map (SOM).

**Technologies:** Python, Jupyter Notebook,Matlab

#### Web Mining

**Mission:** Mining Social Media Network( Twitter, Facebook, Etc.) For Discovering What Moroccan People Discuss During 2018.

**Technologies:** Python(Jupyter; Gensim library), Twitter API, NLTK, TF-IDF, BOW, word2vec, Topic Modeling(Latent Dirichlet Allocation "LDA", pyLDavis).

#### Text Mining

**Mission :** Textes Categorization(SPAM/HAM)

**Technologies :** Python , Scikit-learn, Numpy, Pandas , (SMSSPAMCOLLECTION.txt),

#### Fes For Tourist

**Mission :** Create an android application that uses the concept of augmented reality as well as geolocation, for historical monuments.

**Technologies :** Java, Android Studio,Kudan SDK , Google API( GPS), SQLite.

#### Image Mining

**Mission :** Image categorization, Skin Lesion and creation of a content-based image retrieval (CBIR)

**Technologies :** Python , Jupyter Notebook, Matlab

#### Quiz Application

**Mission:** Consists of setting up a web (or Client / Server) and mobile application for online test management allowing candidates to take tests and receive results instantly.

**Technologies:** Java, Android Studio, Service web (SOAP/Rest),MySQL, SQLite.



### LANGUAGES

**Arabic**

*Mother tongue*

**French**

*Bilingual*

**English**

*Upper Intermediate*



### SKILLS

#### Hard Skills

- Exploratory Data Analysis
- Data Cleaning
- Probability/ Statistics / Algebra
- Data Manipulation
- LAMP Stack
- Data Visualization

#### Soft Skills

- Communication
- Active Learning
- Interpersonal Skills
- Collaboration
- Creative Thinking
- Problem Solving

#### Machine Learning

- Regression
- Systeme de Recommandation
- Clustering / Classification
- Reinforcement Learning

#### Deep Learning

- Neural Network/ CNN /RNN
- Auto Encoder / LSTM
- MLP / RBF
- Boltzman Machine / RBM

#### Langage Programmation

- Python /R
- PL/SQL
- Perl
- C/C++
- Java/Jee
- Android
- NoSQL
- Matlab

#### Outils / APIs

- SQLite
- Flask
- R Studio
- Oracle
- Pytorch
- Git / GitLab
- Jupyter Notebook
- TensorFlow / Keras
- MySQL / PostgreSQL
- Tableau / PowerBI
- Apache Spark
- SOAP / REST
- Google Colab
- Scala
- D3.js
- Hadoop
- Scrum
- MongoDB

#### Python Libraries

- Pandas / Dask
- Scikit-Learn/ Image
- Numpy
- Scipy
- Matplotlib
- Gensim
- Seaborn
- NLTK



### CERTIFICATIONS

- Intel Edge AI Scholarship, Udacity
- Bertelsmann Scholarshp- AI Track, Udacity
- Certificat EF Standard English Test 'C1 Advanced'
- Machine Learning with Python Cognitive Class, IBM
- End of training certificate - Machine Learning and Data Science Hands-on with Python and R , Udemy.
- End of training certificate- Scala and Spark - Getting Started, Udemy.



### INTERESTS

