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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 Scientist

Jan 2020 - Present

Aiox-Labs at Rabat, Morocco.

Mission : Creating charts & dashboards using D3.js for a banking project.

Technologies : Python, D3.js



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

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

