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https://bit.ly/3c1JaL6

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



# AYOUB BERDEDDOUCH

## 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

#### 01 - 2020 **Data Analyst**

07 - 2020 *Aiox-Labs, Rabat, Morocco.*

##### Key Qualifications and Responsibilities

- \* Create a Smart Customer App/ Dashboard for a banking group
- \* Create D3.js charts for KPIs & Reporting Dashboards
- \* Structure data via MongoDB
- \* Apply NLP machine learning algorithms

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

##### Key Achievements

- Create a Smart Customer App/ Dashboards for a banking group

#### 04 - 2019 **Data Scientist Intern**

10 - 2019 *Soft Centre, Casablanca, Morocco.*

##### Key Qualifications and Responsibilities

- \* 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.

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

##### Key Achievements

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

#### 02 - 2016 **Bachelor End of Studies Project**

06 - 2016 *RESI Laboratory, Meknes, Morocco*

##### Key Qualifications and Responsibilities

- \* Research on routing protocols
- \* Worked as binome on implementing the protocol

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

##### Key Achievements

- Implementation of the HDMRP routing protocol in the Castalia wireless network simulator



### EDUCATION

#### 12 - 2019 **Ph.D.**

*LISAC ( former LILAN) Laboratory  
Sidi Mohamed Ben Abdellah University, Fès, Morocco*

#### 09 - 2018 **Master 2**

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

#### 10 - 2017 **Master**

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

#### 09 - 2015 **Bachelor**

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



### ACADEMIC PROJECTS

#### 06 - 2020 **JPMorgan Chase & Co Virtual Experience program Participant as Software Engineer**

- Tasks :
- \* Interface with a stock price data feed
  - \* Use JPMorgan Chase frameworks and tools
  - \* Display data visually for traders (Dashboard on a Web App)
- Technologies: Python, Jupyter, Financial Data, React, git, Typescript, Perspective

#### 05 - 2020 **Deep based Recommender System for pickup points**

Technologies: Python, Jupyter, Dask/Pandas,Keras/Tensorflow, Seaborn, Matplotlib, Numpy

#### 04 - 2020 **Facial Expression Recognition**

Technologies: Python, Jupyter, Tensorflow, JSON, Seaborn, Matplotlib, Numpy

#### 04 - 2020 **Decipher Hands Sign language**

Technologies: Python, Jupyter, Tensorflow, CNN, Scipy, PIL, Matplotlib, Numpy

#### 03 - 2020 **Analysing & Forecasting Financial Data**

Technologies: Python, Jupyter, Pandas, Keras, Seaborn, Numpy, PCA, Statsmodels,ARIMA...

#### 11 - 2018 **Mining Social Media Network 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).

#### 05 - 2018 **SPAM & HAM Classification**

Technologies: Python, Jupyter, Scikit-learn, Numpy, Pandas

#### 03 - 2018 **Skin lesion & CBIR**

Technologies: Python, Jupyter, Scikit-learn, Numpy, Pandas, Matlab, Matplotlib, Pillow



### LANGUAGES

**Arabic**



*Mother tongue*

**French**



*Bilingual*

**English**



*Upper Intermediate*



### SKILLS

#### Hard Skills

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

#### Soft Skills

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

#### Machine Learning

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

#### Deep Learning

- MLP / Neural Network / CNN
- Auto Encoder / RNN / LSTM

#### Langage Programming

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

#### Tools / APIs

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

#### Python Libraries

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



### CERTIFICATIONS

- Intel Edge AI Scholarship, Udacity
- Bertelsmann Scholarship- 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

