Ayoub EL HADINE

Data Scientist | Data Analyst | Machine Learning Engineer

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EDUCATION

2022   Master's Degree in Data Science at **National Institute of Statistics and Applied Economics, Rabat-Morocco**.

SKILLS

Programming	SQL, Python, R, SAS, VBA, DAX, Scala, Java.
Machine Learning	Supervised and unsupervised algorithms with model deployment with MLOps tools (**CI/CD**).
Economics and Finance	Corporate Finance and Financial Diagnosis.
Tools	Excel, Git, GitLab/GitHub, Jupyter Notebook, Docker, Kubernetes.
Frameworks	Scikit-learn, Tensorflow, Pytorch, MLflow, Kubeflow, Flask, Shiny.
DataBases	Oracle, MySQL, PostgreSQL.
BI Tools	Tableau, Power BI.
Cloud	Azure, AWS.

EXPERIENCE

Jul 2022
Mar 2022

End of Study Internship in Data Science, OCP GROUP, Khouribga-Morocco
- We were in charge of **modeling the production costs of phosphate products** at the khouribga plant.
- The Designated solutions are structured with **Six Sigma** method : **DMAIC** from definition of needs through to implementation, including measurement, analysis, design and validation.
- A robust **Partial Least Squares Regression model (PLS2)** has been built in order to address multi-collinearity. **This model performed better** than existing solutions (Ridge and Lasso Regression) in term of stability of estimates.
- We created an **automated data analysis & model building tool with shiny** to serve our models and help the business expert to build faster analyzes and deductions.

R | R Shiny Dashboard | Excel | Six Sigma (DMAIC)

Sep 2021
Jul 2021

Summer Internship in Data Science, MINISTRY OF ECONOMY AND FINANCE, Rabat-Morocco
- Econometric estimates of the parameters of the demand functions of the products that households consume in Morocco using **Linear Expenditure System (LES)**.

R | Excel

PROJECTS

PRODUCTS SALES ANALYSIS

ETL on a MySQL database with the list of product sales and visualization of the various financial KPIs with Power BI.

MySQL | ETL | Power BI

AUTOMATED DECISION :CRYPTO TRADING
 Code

Using an online **API**, that returns the historical and real time rates of **DOGEcoin** in USD, a statistical model was built to create predictions and therefore be able to **recommend investing** in DOGEcoin based on a number of metrics.

Python | Jupyter Notebook | Tensorflow | ARIMA | XGBOOST | LSTM | Q-Learning

CERTIFICATIONS

Machine Learning Issued by Stanford Online Verify
Deep Learning Specialization Issued by DeepLearning.ai Verify
Natural Language Processing Specialization Issued by DeepLearning.ai Verify
DeepLearning.AI TensorFlow Developer Specialization Issued by DeepLearning.ai Verify

LANGUAGES

English Fluent
French Fluent
Arabic Native

HOBBIES & INTERESTS

- Reading, Blogging & Research.
- Graphic & Vidéo Design.