Hamza IMLOUL

Data Scientist – Industrial engineer
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Professional experience

Business Data Analyst; Mixtra Trans; Agadir, Morocco | 09/2019 – 10/2020

- Designed the technical specifications, centralized and deployed the fleet management system.
- Conducted feature selection and presented information using data visualization techniques.
- Produced ML models to predict the behavior of the transportation process variables.
- Recognized valuable data sources and automate collection and storage procedures.
- Cleaned and prepared structured and unstructured data, for appropriate statistical analysis.
- Coordinated and supported the team in the daily activities, HSSE insurance, and vehicle routing.

Development assistant engineer; VIVO Energy; Casablanca, Morocco | 02/2018 - 06/2018

- Developed the specifications and UI of the CMMS, for fueling equipment in aerodromes.
- Implemented a decision support tool for the renewal of equipment. Saving operational and maintenance costs.
- Delivered risk mapping, Analyzed business continuity plan.

Development intern; Al Barid Bank; Rabat, Morocco | 07/2017 – 08/2017

- Modelled the parcels' routing time, prepared datasets, Increased the accuracy of the KPI related to logistics performance.

Logistics intern; Morocco National Railways Office; Rabat, Morocco | 03/2017 – 06/2017

- Designed the specifications of a desktop application to structure the transported products data, monitoring and analyzing trains Freight, and increased team productivity.

Discovery internship; Lafarge-Holcim; Meknes, Morocco | 07/2015

- Studied the dosing regulator equipment: DISOCONT.

Projects (Selected)

Fleet management platform: Designed R Shiny application: managed fleet using Kanban, visualized requests on map.
Automated pattern extraction from Proofs of delivery: Reduced operation cost and time by 96% #OCR #R
Driver behavior clustering: Segmented drivers based on their behavior while driving. #Hierarchical Cluster Analysis
Anomaly detection tool in the transportation process: exposed wasting time #Unsupervised anomaly detection #R

Studies

M. Eng. Industrial engineering, Supply chain management
Ecole Mohammadia d'ingénieurs ; Rabat, Morocco | 2014-2018

   Relevant courses: Data mining • statistical process control • operations research • Simulation • Forecasting

Two years degree in Applied Mathematics. With distinctions
Ibn Zohr University; Agadir, Morocco | 2012-2014

Certifications

Enterprise Design Thinking Practitioner; IBM | 12/2020, View
Foundations of Strategic Business Analytics; ESSEC Business school | 12/2020, View

Additional information

Programming skills:	Python {Pandas, Numpy, Requests}, R, C++, Matlab, Excel, SQL, CPLEX, Jupyter.
Data Science:	R {R-Shiny, Tidyverse, sf, httr, R-Markdown, etc.}, GitHub, ERP, Restful API, JSON
Visualization tools:	ggplot2, Plotly, Leaflet.js, Excel, Tableau
Languages:	English (Fluent), French (Fluent), Arabic (Native)
Others:	Graphic drawing, Data visualization, Hiking, Design thinking, research