Hamza IMLOUL

Data Analyst – Industrial engineer

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Professional experience

Data Operations Analyst; Mixtra; Agadir, Morocco | 09/2019 – 11/2020

- Designed the technical specifications, UI/UX, deployed the fleet tracking and resource management system.
- Analyzed sensors and geospatial data of 102 vehicles, prepared and cleaned datasets for reporting.
- Researched and Presented insights using interactive data visualization, spatial maps.
- Produced statistical models to predict the behavior of the transportation process.
- Coordinated and supported the team in the daily activities, HSSE insurance, and vehicle assignment.

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

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

Business Data analyst; Post Morocco; Rabat, Morocco | 07/2017 – 08/2017

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

Development assistant; 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.

Projects (Selected)

Fleet management platform: Designed R Shiny app: managed fleet using Kanban, visualized spatial data 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

B.Sc. in Industrial engineering, minor in Operations research.
Ecole Mohammadia d'ingénieurs ; Rabat, Morocco ; 2018

Relevant courses: Data mining • Statistical process control • Operations research • Simulation • Forecasting

Two years undergraduate degree in Applied Mathematics. With distinctions
Ibn Zohr University; Agadir, Morocco; 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++, Arena, Excel, SQL, CPLEX, Jupyter.
Data Science:	R {R-Shiny, Tidyverse, sf, httr, R-Markdown}, GitHub, ERP, Rest API, JSON
Visualization tools:	ggplot2, Plotly, Leaflet.js, Tableau, PowerPoint, Illustrator, Photoshop, Animator
Languages:	English (Fluent), French (Fluent), Arabic (Native)
Others:	Scientific Illustration, Data visualization, Hiking, Game design, Research