

# Imen Ayadi

IA

DATA ENGINEER

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## EXPERIENCE

### Data Engineer — Sudan Mission Jun 2024 - Present

IMPACT Initiatives · Nairobi, Kenya

- Designed and built a PostgreSQL star schema database consolidating 10+ humanitarian data sources
- Developed Python ELT pipeline with automated ingestion, spatial joins, and transformation
- Built a 4-tier location matching system achieving 100% geographic coverage across all datasets
- Built Power BI dashboard with DAX measures and choropleth map across 55 admin clusters

### Data Officer — Libya Mission Feb - Jun 2024

IMPACT Initiatives · Tunis

- Processed and cleaned 5,000+ survey responses via KoboToolbox across multiple assessment cycles
- Built Power BI dashboards visualizing humanitarian indicators across 8 governorates
- Trained 5+ partner organizations on KoboToolbox and data quality best practices

### Data Scientist Feb - Jun 2024

VERMEG for Banking & Insurance Software · Tunis

- Automated email classification using NLP models (RoBERTa, DeBERTa) achieving 92% accuracy
- Built intelligent summarization pipeline with BART to accelerate decision-making
- Developed advanced sentiment analysis to prioritize critical response tickets

### BI Analyst Intern Jul - Aug 2023

Wimbee · Tunis

- Built a Power BI dashboard improving sales tracking by 15%
- Enhanced data collection pipeline using Talend ETL

### Statistics & Mathematics Assistant 2018 - 2021

Mediterranean School of Business · Tunis

- Taught statistics courses, contributing to measurable improvements in student outcomes

### Admissions Officer (Seasonal) Jun - Jul 2020

MSB University · Tunis

- Guided 200+ students through the admissions process; improved placement rates by 20%

### Banking Services Intern Jun - Jul 2019

BIAT · Tunis

- Supported daily banking operations and ensured smooth client transactions

## PROJECTS

### Palestine-Israel Conflict Dashboard · 2024

Power BI dashboard analyzing impact zones, regional trends, and chronological developments

### Olympic Games 2024 Visualization · Paris

Interactive Power BI dashboard tracking athlete performance and medal counts by country

### Strategic BI Analysis — Fantastic · 2024

Decision-support system built with SSIS, SSMS and Power BI for retail sales optimization

### Olist Sales Analysis · ESPRIT 2023 (Award)

Power BI analysis combined with XGBoost-based customer prediction model

## EDUCATION

### MSc Data Analytics

ESB - Esprit School of Business  
2022 - 2024

### BSc Business Management (Finance)

MSB - Mediterranean School of Business  
2018 - 2021 · GPA 3.16/4

### Baccalauréat Sciences

Lycée 2 Mars  
2016 - 2018

## SKILLS

### Analytics & Visualization

Power BI Tableau  
Python R Excel

### Data Engineering

SQL Talend SSIS ETL

### ML & NLP

RoBERTa DeBERTa  
BART XGBoost  
Clustering

### Web Scraping

BeautifulSoup Selenium

### Tools & Methods

Jira Scrum KoboToolbox

## LANGUAGES

Arabic French English  
German

## CERTIFICATIONS

- Building Generative AI Apps with Gradio
- Open Source Models with Hugging Face
- Introduction to Power BI

## AWARDS

### Bal de Projet 2023 · ESPRIT

Sales analysis with Power BI + XGBoost predictions

### Business Game 1st Prize

2021 · SMU  
Sales strategy and cost optimization