

MOHAMMED EL HARCHI

Data/Business Analyst

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Fes, Morocco

Aspiring Data/business analysts possess a solid foundation in computer science and management. strong analytical skills in financial analysis, mathematics, statistics, and accounting. Experienced in object-oriented design, distributed systems, software development, algorithms, and AI. motivated to deepen my skills in extracting insights, creating predictive models, and implementing data-driven solutions to solve real-world problems.

Work Experience

Financial Manager

Nov 2022 - Nov 2025

ENACTUS 1337 KHOURIBGA | | Um6p - 1337 Coding School Khouribga

- Responsible for the financial management of the club
- Search for investors
- Organization of activities, conferences and field trips

Projects

SalesFlow Analytics Lab

Present

A comprehensive containerized end-to-end sales data analytics platform that transforms raw CSV data into actionable business insights using Docker, Python, PostgreSQL, and advanced SQL analytics. This project demonstrates full-stack data pipeline development with enterprise-grade containerization.

- Docker-Powered Architecture: Environment Consistency, Scalable Deployment, Isolation & Security, Zero-Dependency Setup, Production-Ready
- Containerized Data Engineering Pipeline: Docker Compose Setup, Data Ingestion, Data Quality Assurance, Data Transformation, Database Integration
- Advanced Analytics & Business Intelligence: Revenue Analysis, Regional Performance, Growth Analytics, Temporal Analysis, Category Performance, etc
- Business Value Delivered: Performance Insights, Growth Tracking, Seasonal Analysis, Data-Driven Strategy, Enterprise Scalability.

Power BI Churn Analysis

Present

A Power BI churn analysis uncovering customer attrition trends at Databel Telecom, transforming data into actionable retention strategies through interactive visualizations, Built dynamic churn metrics using advanced DAX calculations in Power BI.

- Investigate a dataset from a fictitious company called Databel, and figure out why customers are churning.
- Exploring the new dataset and revisiting creating measures in Power BI to get a better understanding of why customers are churning.
- Further investigate why customers are leaving Databel, and create dashboard-style pages and arrange them into stories, so that you can share your results with stakeholders
- Target Audience: Sales Leadership, Finance Teams, Product Managers, Executive Leadership

Relay-Server

Present

This project implements a basic Internet Relay Chat (IRC) server, allowing clients to communicate with each other in a chatroom-like environment. The server supports multiple channels, private messages, and basic user management commands.

It provides functionality for handling multiple users and channels, sending messages, and managing basic server commands like joining and leaving channels.

- The server can handle multiple connected clients at once. Each user can join one or more channels, send and receive messages in real-time.
- Users can join or leave different chat channels. Each channel has a unique name and supports multiple users communicating in it simultaneously.
- Users can send private messages directly to each other, even if they're not in the same channel.

TicTac AI

Present

This project is a game web application. contain Profile, live chat, dashboard, and an AI player in-game.

- Implemented minimax algorithm for AI-powered tic-tac-toe game featuring strategic move evaluation, win-condition analysis, and optimal gameplay decision-making.
- Backend Technologies: Django (Python), PostgreSQL, API Design: RESTful
- Core Modules: Authentication, Account Management, Real-time Chat, Game Engine, Tournament System
- DevOps & Infrastructure: Containerization, Orchestration: Docker Compose, Web Server: Nginx reverse proxy with load balancing, Security: Vault integration for secrets management, Automation: Makefile for streamlined development workflows

Core Skills

Programming & Scripting: C, C++, Python, Django, flask, R, Bash, Shell, HTML, Css, JavaScript, Git, Dax, VBA / MACROS, SQL, Django Rest Framework

Web Services & Networking: Nginix, TCP/IP, HTTP/HTTPS, JWT, OAuth2, RestApi

Cloud & Infrastructure: Docker, Docker compose

Data & Analytics Tools: Power BI, Tableau, Jupyter, Access, Github, Google Colab, Kaggle, Excel, Hugging Face

Soft-Skills: Teamwork, Time management, Effective communication, Problem Solving, Critical thinking

Education

UM6P - 1337 Coding School

Oct 2022 - Present

Digital Technology Architect, Information Technology Khouribga

Faculty of Legal, Economic, and Social Sciences

Sep 2018 - May 2022

Bachelor of Science in Management Fes

Abdelkrim Daoudi Hight School

Sep 2015 - May 2018

Baccalaureate in physical sciences Fes

Languages

Arabic, English, French