YOUCEF BELMOKHTAR

Junior Data Scientist

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PROFILE

Junior Data Scientist with proven experience building end-to-end data solutions and delivering measurable business impact. Specialized in inventory forecasting, process automation, and business intelligence dashboard development. Proficient in Python, SQL, Flask, and Power BI with demonstrated ability to reduce operational costs and improve decision-making through data-driven insights. Experienced in remote collaboration and cross-functional team environments.

EXPERIENCE

01/2025 – Today
Remote work

Data Scientist
TweezGroup
- Reduced order processing time by 30% through intelligent supplier allocation algorithms, streamlining procurement workflows and improving operational efficiency.
- Designed and developed a Flask web application to streamline Amazon Vendor Central operations, including order tracking, shortage management, shipping fee allocation, and profit calculation.
- Engineered backend logic to integrate and preprocess complex datasets (purchase orders, supplier stocks, Amazon charges) stored in MySQL, enabling accurate and real-time business decisions.
- Automated allocation algorithms to match supplier quantities to Amazon POs based on priority rules, reducing manual workload and inventory mismatches.
- Designed and deployed a modern inventory management system, enabling real-time tracking of product stock, supplier orders, and customer demand.
- Developed forecasting models per SKU using traditional machine learning techniques, enabling 14-day demand predictions and smarter restocking decisions.

04/2024 – 11/2024
Banking, Mascara

Cashier
GULF BANK ALGERIA
Managed high volume cash transactions with accuracy and attention to detail to ensure customer satisfaction.
Processing business payments and verifying invoices

04/2019 – 05/2019
Industry, Mascara

Economic studies officer (intern)
BAG MASCARA
Prepare reports by developing automated KPI dashboards using Excel.

EDUCATION

01/2020 – 07/2022
Mascara

Master in Quantitative Economics-
Mustapha Stambouli
Using econometric models to analyze historical data, trend analysis, demonstrating how external shocks (such as oil price fluctuations) impact inflation and interest rates in Algeria, leading to actionable insights.

10/2016 – 01/2020
Mascara

Degree in Quantitative Economics-
Mustapha Stambouli
Mastery of econometrics and data analysis techniques, successfully applied in class projects.

HARD SKILLS

Python
(pandas, scikit-learn, NumPy, Matplotlib, requests, beautifulsoup4)

Machine learning
Supervised/unsupervised learning, model evaluation, hyperparameter tuning

GitHub

Flask

SQL
(MySQL, PostgreSQL)

Jupyter Notebooks

Statistics
A/B testing, statistical modeling, hypothesis testing

ETL
(Extraction, Processing and Loading)

ClickUp

LANGUAGES

Arab	● ● ● ● ●	English	● ● ● ● ○
French	● ● ○ ○ ○ ○		

CERTIFICATES AND ATTESTATION

**DataCamp Associate Data Analyst
Certificate**
[2020]

PROJECTS

Stroke Prediction Web App 🔗
Machine Learning + Streamlit + HealthTech
- Designed a machine learning model to predict the risk of stroke based on individual health and demographic data (e.g., age, hypertension, heart disease, BMI, smoking status).
- Used scikit-learn to preprocess data, train a classification model.
- Evaluated model performance with metrics like accuracy, precision, recall, and F1-score to ensure clinical relevance and reliability.
- Deployed the model in a streamlit web application, allowing users to input their information and receive real-time stroke risk predictions.
- Integrated the app with a clean user interface for non-technical users, demonstrating full-stack ML deployment skills.

KetabAI – AI PDF Book Chatbot
- Developed KetabAI, an AI-powered web app that lets users chat with PDF books, summarize chapters, and get content-based recommendations.
- Integrated Google's Gemini API into a LangChain-based RAG (Retrieval-Augmented Generation) pipeline to provide intelligent, contextual responses based on uploaded documents.
- Delivered an intuitive Streamlit UI, allowing non-technical users to upload PDFs, ask questions, and explore content with AI assistance in real time.

Rental Prices in Algeria
- Built a custom web scraping solution using requests, BeautifulSoup, and re to extract and structure real estate listings data from Algerian classified websites, automating the collection of over 4,000 records.
- Cleaned and standardized raw data, handled missing values
- Trained and a GradientBoostingRegressor model to predict rental prices with strong performance metrics, using relevant features including city, surface area, room count.
- Evaluated model performance using cross-validation and error metrics (e.g., MAE, RMSE), identifying the most important features influencing rental price predictions.

SOFT SKILLS

Team collaboration

Effective communication

Problem solving

Remote team coordination