

Youssef Dahmou

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Skills

- Python | Scala | R | Java | SQL | PLSQL.
- Machine Learning System Design | NLP | Deep Learning | Computer Vision | Time Series | LLM | Data Warehousing | Computer Vision.
- MySQL | Elasticsearch | MongoDB | Neo4j | Cassandra | Redis | OrientDB.
- Apache Spark | Kafka | Talend | Airflow | Docker | Kubernetes | Power BI | Kibana | PowerBI | Git.
- Anglais | Français | arabic

Experience

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|--|----------------------|----------------------------|--------------------------|
| Data Science Engineer | <u>Talaty</u> | <i>Morocco, Casablanca</i> | 07/2024 - Current |
| <ul style="list-style-type: none">• Developed a containerized AI-based API for data extraction from Moroccan bank checks with 99% accuracy and less than 1 second response time.• Developed a containerized AI-based API for data extraction from both sides of Moroccan ID cards, achieving 95% accuracy and less than 1 second response time, providing fast and accurate data extraction for banking clients.• Built, parallelized, and automated ETL pipelines for data cleaning and preparation for model training.• Trained and optimized models for oriented object detection and optical character recognition (OCR).• Collaborated in client meetings to manage project timelines and deliverables, while developing and delivering Software Requirements Specifications (SRS) to clients.• Tools: Python Airflow Azure Docker. | | | |
| Data Science Intern | <u>Talaty</u> | <i>Morocco, Casablanca</i> | 02/2024 - 06/2024 |
| <ul style="list-style-type: none">• Contributed to the development of a machine learning pipeline for extracting and structuring data from bank statements in various formats, achieving 99% accuracy and a response time of less than 1 second, enhancing efficiency and reducing manual effort through fast and accurate data extraction.• Conducted requirement analysis, feasibility studies, and system design.• Trained and optimized machine learning models for table column classification and structure recognition.• Built an automated, containerized pipeline for system testing.• Authored comprehensive technical documentation covering architecture, design, algorithms, and workflows.• Tools: Python Airflow Azure Docker. | | | |
| Data Science Freelancer | <u>SINONE</u> | <i>Morocco, Rabat</i> | 09/2023 - 01/2024 |
| <ul style="list-style-type: none">• Developed an AI-powered application to gather and summarize news articles on specific topics, enabling faster and more efficient access to information and enhancing decision-making processes.• Built topic-based web scraping pipelines to collect news articles.• Implemented a large language model (LLM) for summarizing news content.• Tools: Python Web Scraping LLM Models. | | | |
| Data Engineer Intern | <u>SINONE</u> | <i>Morocco, Rabat</i> | 06/2023- 09/2023 |
| <ul style="list-style-type: none">• Designed and developed a data warehouse, including dashboards for company KPIs.• Implemented sales and marketing analysis data marts.• Developed an automated ETL pipeline for data cleaning and ingestion from operational databases to the data warehouse.• Created dashboards and reports for monitoring company KPIs.• Enabled top management to make informed decisions with fast and efficient data access.• Tools: Python SQL Elasticsearch Kibana. | | | |

Education

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|---|---|------------------------|-------------------------|
| Bachelor of Engineering | <u>School of Information Sciences</u> | <i>Morocco, Rabat</i> | 10/2021 - 6/2024 |
| <ul style="list-style-type: none">• Engineering Degree in Data Science and Knowledge Engineering. | | | |
| Bachelor of Engineering | <u>Preparatory Classes for Engineering Schools</u> | <i>Morocco, Agadir</i> | 10/2019 - 6/2021 |
| <ul style="list-style-type: none">• Advanced mathematics, physics, and industrial sciences. | | | |

Projects

- **Forecasting stock market closing price:** Ensure competitive advantage for the company by implementing an ETL pipeline to analyze continuous stock market data.
Tools: Python | Kafka | Hadoop | Airflow | Spark | Power BI
- **Data management and warehousing:** The development of a design and a visualization of a DataWarehouse schema using Talend and power BI.
Tools: Talend | Talend Expression Language | PLSQL | Oracle Database