

# 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

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

## Education

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

## 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

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