



# SEBBAR Abdelhamid

## AI Engineer & Data Scientist

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🌐 AbdelHamid SEBBAR | 👤 23 yo | 📍 Casablanca, Morocco

### Profile

Junior Data Engineer, with hands-on experience from internships and academic projects. Proficient in data analysis, processing, and AI-driven solution design, with strong problem-solving skills and the ability to deliver scalable and impactful results.

### Education

<b>Faculty of Sciences Ben M'sik, Casablanca</b>	2023 – Jul 2025
Master's Degree in Data Science & Big Data	
<b>Faculty of Sciences Ben M'sik, Casablanca</b>	2019 – Jul 2023
Bachelor's Degree in Mathematics and Computer Science	
<i>Specialization : Databases</i>	

### Professional Experience

<b>AI Engineer &amp; Data Scientist   ATLAS CLOUD SERVICES – Data Center</b>	Feb 2025 - Jul 2025
<ul style="list-style-type: none"><li>Developed an intelligent conversational chatbot for data center support.</li><li>Designed and implemented a multi-modal chatbot capable of handling multiple input formats (text, audio, image, PDF) to meet diverse internal user needs.</li><li>Collected, cleaned, and structured a specialized corpus of Q&amp;A pairs related to data centers.</li><li>Fine-tuned local Large Language Models (LLMs) to adapt the chatbot to technical vocabulary and operational context.</li><li>Implemented a Retrieval-Augmented Generation (RAG) architecture to enrich responses from internal documents, reducing hallucination rates significantly.</li><li>Deployed the solution in a secure production environment, ensuring confidentiality and relevance of information provided to operators.</li><li><b>Technologies :</b> Python, LangChain, LangGraph, ChromaDB, LLaMA 4, DeepSeek, Whisper, Hugging Face Transformers, VLMs, MongoDB, Neo4j, BeautifulSoup, Scrapy, Selenium...</li></ul>	
<b>Data Scientist   LABORATOIRE PUBLIC D'ESSAIS ET D'ETUDES</b>	Jul 2024 - Sep 2024
<ul style="list-style-type: none"><li>Designed an AI solution for the digitalization and optimization of the recruitment process.</li><li>Collected and preprocessed a large dataset of CVs. Built a Computer Vision system to segment specific sections of CVs.</li><li>Applied Tesseract OCR to extract and structure relevant information from the segmented areas.</li><li>Integrated LLMs for automatic CV analysis to compute similarity scores and rank the most suitable candidates for a given job position.</li><li><b>Technologies :</b> Python, OpenCV, YOLOv8, CNN, Faster R-CNN, OCR, Hugging Face Transformers, OpenAI API, GPT4All, MongoDB...</li></ul>	
<b>Data Analyst   DIRECTION GÉNÉRALE DE LA MÉTÉOROLOGIE</b>	Mar 2023 - Jun 2023
<ul style="list-style-type: none"><li>Developed an application for processing and analyzing data from a network of meteorological stations.</li><li>Analyzed collected meteorological data to identify trends and anomalies using Pandas and NumPy.</li><li>Built a model with Scikit-learn to transform meteorological data into specific formats understandable by climatologists and domain experts.</li><li>Integrated the model into the application to facilitate manual data archiving for climatologists.</li><li><b>Technologies :</b> Python, Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, MySQL...</li></ul>	

## Technical Skills

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- **Programming & Frameworks** : Python, Django, Flask
- **AI & Data Science** : AI agents, Gen AI, LLM, VLM, NLP, Computer Vision
- **Cloud Technologies** : n8n, AWS, Microsoft Azure, Docker
- **Databases** : MySQL, NoSQL, MongoDB, Neo4j
- **Data Visualization** : Tableau, PowerBI, IBM Cognos Analytics
- **DevOps & Tools** : GitHub, MobaXterm, Jupyter Notebook, VS Code, CVAT

## Certification

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- Python for Data Science, AI & Developement - *IBM, Certificate ID : **SUFH2ARBFQKW***
- Machine Learning with Python - *IBM, N° de certificat : **SNJFRPLXAP24***
- Neural Networks and Deep Learning - *DeepLearning.AI, N° de certificat : **SNGJ0QOXATAH***

## Languages

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| • <b>Arabic</b> : Native | • <b>English</b> : Fluent | • <b>French</b> : Fluent |
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