

LOUNES MECHOU EK

Data Scientist | Data Engineer
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LinkedIn | Portfolio | GitHub

EDUCATION

Université Paris Cité (prev. Paris Descartes) Data Science and Machine Learning, Master's Degree GPA: 3.7	Paris, France Oct. 2021 - Sept. 2023
Ecole nationale Supérieure d'Informatique ESI (prev. INI) Computer Science, Engineer's Degree GPA: 3.7	Algiers, Algeria Sept. 2017 - Sept. 2022

EXPERIENCE

Independent Consultant Data Developer <ul style="list-style-type: none">Developed data extraction scripts and built analytical databases.Conducted in-depth processing and analysis on text corpora.Improved the response quality of an LLM by 30% through the implementation of a RAG architecture.Tools: Python, TensorFlow, Matplotlib, Haystack, MongoDB, Playwright.	Paris Feb. 2024 - May 2024
Capgemini Technology Services Data Science Consultant <ul style="list-style-type: none">Designed and implemented descriptive and predictive NLP models and ML pipelines on Azure.Created analytical dashboards and applications.Assisted clients in leveraging their data, resulting in a 20% increase in conversions.Tools: Python, Scikit-Learn, HuggingFace, TensorFlow, Azure Machine Learning, Streamlit, Docker.	Paris Nov. 2022 - Sept. 2023
ESI Deep Learning Intern <ul style="list-style-type: none">Developed a Deep Learning architecture for automatic license plate recognition.Fine-tuned models and deployed the architecture on Google Cloud.Developed a REST API for real-time inference.Tools: Python, OpenCV, PyTorch, GCP, Flask, Weights & Biases.	Algiers Nov. 2021 - Aug. 2022

SKILLS

Programming Languages:	Python, SQL, R, Java, Bash
Libraries/Frameworks:	Pandas, Numpy, Tensorflow, MLFlow, Haystack, Streamlit, PySpark, Scikit-Learn, Matplotlib, Flask, OpenCV, Docker
Tools / Platforms:	Snowflake, dbt, Airflow, PowerBI, Google Cloud, Azure, MongoDB Atlas

PROJECTS / OPEN-SOURCE

TweetAnalysis Link Developed a web platform for real-time tweet analysis, including trend detection, sentiment analysis, and visualizations.	<i>Python, Pandas, Streamlit, ScikitLearn, nltk</i>
DreamForecast Link Developed a deep learning architecture incorporating LSTM and CNN models to predict sleep periods.	<i>Python, Tensorflow, Pandas, Matplotlib</i>
ELT Pipeline <ul style="list-style-type: none">Created fact and dimension tables from source tables as part of an ELT pipeline.	<i>SQL, dbt, Snowflake, Airflow</i>

CERTIFICATIONS

- Microsoft Certified: Azure Data Scientist Associate - **Microsoft**