FIRAS SAKLI

DATA SCIENCE STUDENT

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PROFILE

Master's student in Web and Data Science with a strong interest in data engineering and analytics. Experienced with Python, SQL, and modern data frameworks such as Airflow, Spark, and Docker through academic work and personal projects. I enjoy building ETL pipelines, creating visualizations, and exploring machine learning models to transform data into insights and practical solutions.

EDUCATION

MASTER'S IN WEB AND DATA SCIENCE

University of Koblenz, Germany
April 2025 - Present

BACHELOR'S IN COMPUTER SCIENCE

High institution of applied science and technology of sousse, Tunisia
September 2020 - May 2023

WORK EXPERIENCE

WEB DEVELOPER INTERN

Carthage Solutions, Tunisia | 01/2025 - 06/2025

- Worked with APIs and backend integration, gaining experience in handling and structuring data
- Designed and implemented features with attention to data flow, quality, and usability

SKILLS

TECHNICAL

- Python
- SQL and PostgreSQL
- Power BI and DAX
- Data visualization and dashboards
- Data modeling and star schema design
- ETL pipelines and workflow automation
- Docker and Airflow
- FastAPI and Streamlit
- Time series forecasting and machine learning
- Model explainability and feature engineering
- Data quality checks and validation

LANGUAGES

English : Professional (C1)
French : Professional (C1)
Arabic : Native
German : Beginner (B1)

PERSONNEL PROJECTS

GERMAN ENERGY MARKET PRICE FORECASTING

- Built an end-to-end pipeline for German day-ahead electricity prices using ENTSO-E and SMARD data.
- Orchestrated data ingestion, feature engineering, and PostgreSQL storage with Dockerized Python & Airflow.
- Trained XGBoost baseline + quantile regression models with probabilistic forecasts and SHAP explanations.
- Deployed results via a FastAPI API and interactive Streamlit dashboard.

GLOBAL E-COMMERCE BI DASHBOARD

- Built an end-to-end BI solution with Power BI, Python, and SQL for a global e-commerce case. Created key KPIs (Revenue, Conversion Rate, AOV, CAC, On-Time Delivery %, Return %) and interactive dashboards with drill-downs by region and channel.
- Added revenue and delivery forecasts using time-series models and integrated them into Power BI dashboards.
- Analyzed drivers such as delivery times and marketing spend to show their impact on performance and suggest improvements.
- Improved data quality with checks and transformations, and organized data into a clean star schema for easy analysis.