

AMIR AMEMI

Germany

+4915215809155

amir@amemi.de

linkedin.com/in/amemi-amir/

github.com/AmirAmemi

<https://www.amemi.de>

Education

University of Schmalkalden

Exchange Student in Computer Science

April 2024 – Present

Schmalkalden, Germany

Faculty of Science of Monastir

Master's Degree in Data Science

September 2022 – June 2024

Monastir, Tunisia

Faculty of Science of Monastir

Bachelor's Degree in Applied Mathematics

September 2018 – June 2022

Monastir, Tunisia

Experience

Smart Information Trade

February 2024 – September 2024

Data engineer Intern

Monastir, Tunisia

- Engineered an advanced exam scheduling application utilizing metaheuristic methods, achieving a 98% reduction in scheduling time from previous benchmarks.
- Achieve a 95% compliance rate with stakeholder constraints, enhancing scheduling efficiency.
- Prepared reports on the above information and communicated the insights into these reports to the broader business.
- Provide a powerful monitoring application that improves scheduling efficiency, contributing to improved 3 project success metrics.

Technologies: Python, Pandas, NumPy, Matplotlib, MySQL, DEAP, Genetic Algorithm, Excel, Word, Data visualization, Mathematics.

Digital Research & Technologies

April 2023 – October 2023

Data engineer Intern

Monastir, Tunisia

- Achieved actionable business insights by analyzing large datasets using Python and MySQL, increasing data accuracy by 25%.
- Developed efficient data pipelines, incorporating AWS Glue and Redshift, reducing processing time by 30%.
- Analyzed data trends, resulting in improvement in decision making speed for key strategy initiatives.
- Improved user satisfaction by 20% through collaborative integration of data driven solutions.

Technologies: Python, MySQL, AWS Glue, AWS Redshift, HTML5, Selenium, BeautifulSoup, JSON.

Projects

End-to-End Data Pipeline for Flight Delay Analytics

May 2025

- Created a serverless pipeline using AWS Lambda and S3 to fetch and store data on over 100 daily flights, with Implemented summary reports delivered via Discord at 5:00 pm.
- Linked S3 data locally using Python and populated a Power BI dashboard with 6 visuals to enable real-time analysis of delay trends and airport performance.
- Technologies:** Python, AWS Lambda, AWS S3, SAM CLI, Power BI, REST API (Aviationstack), boto3, Discord webhook.

Automated Data Pipeline & Flight Delay Dashboard

April 2025

- Developed an programmed data pipeline to fetch, clean, and analyze Nouvelair flight delay data using Python.
- Visualized key metrics with Matplotlib, generating daily 5 dashboards reports.
- Scheduled daily execution and posting via GitHub Actions and Discord Webhook integration at 10:00 UCT.
- Technologies :** Python, Pandas, Matplotlib, PostgreSQL, ETL, GitHub Actions, Discord API, PIL (Pillow), Requests.

Technical Skills

Languages: Python, Java, C, HTML/CSS, SQL.

Developer Tools: VS Code, Eclipse, Google Cloud Platform, IntelliJ.

Data Engineering: ETL Pipelines, Data Warehousing, Data Processing, AWS Glue, AWS Redshift, MySQL.

Big Data & Analytics: Data Pipelines, Data Cleaning, Data Transformation, Business Intelligence.

Data Visualization: Power BI, Matplotlib, Seaborn.

Automation & Web Scraping: Selenium, BeautifulSoup, JSON, APIs.

Languages

- German** Currently enrolled in an intensive language course
- English** Fluent
- French** Fluent
- Arabic** Native