AMIR AMEMI

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Education

University of Schmalkalden	**April. 2024 – present**
Exchange Student in Computer Science	*Schmalkalden, Germany*
Faculty of Science of Monastir	**Sep. 2022 – June 2024**
Master's Degree in Data Science	*Monastir, Tunisia*
Faculty of Science of Monastir	**Sep. 2018 – June 2022**
Bachelor's Degree in Applied Mathematics	*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, signicantly enhancing scheduling efficiency
- Prepare reports on the above information and communicate the insights of these reports to the broader business
- Provide a powerful monitoring application that improves scheduling efficiency, contributing to improved 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

Automated Data Pipeline & Flight Delay Dashboard — **April 2025**

- Developed an automated data pipeline to fetch, clean, and analyze Nouvelair flight delay data using Python.
- Visualized key metrics with Matplotlib and Seaborn, generating daily dashboard reports.
- Automated daily execution and posting via GitHub Actions and Discord Webhook integration.
- **Technologies :** Python, Pandas, Matplotlib, PostgreSQL, ETL, GitHub Actions, Discord API, PIL (Pillow), Requests.

Spam Email Detection — **March 2023**

- Expertly implemented a Spam Email Detection system utilizing sophisticated machine learning algorithms to ensure precise classification of emails as either "spam" or "no-spam."
- Leveraged powerful Python tools such as Pandas, scikit-learn, and Matplotlib for comprehensive data preprocessing, feature extraction, and performance evaluation.
- **Technologies:** Python, Pandas, NumPy, scikit-learn, NLTK, Matplotlib, Seaborn, Plotly, Word Cloud, Excel, Data Modeling, Data Visualization.

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

Languages

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