

AMIR AMEMI

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Education

University of Schmalkalden

Exchange Student in Computer Science

April. 2024 – April. 2025

Schmalkalden, Germany

Faculty of Science of Monastir

Master's Degree in Data Science

Sep. 2022 – June 2024

Monastir, Tunisia

Faculty of Science of Monastir

Bachelor's Degree in Applied Mathematics

Sep. 2018 – June 2022

Monastir, Tunisia

Experience

Smart Information Trade

Feb. 2024 – July 2024

Software Engineer | Data engineer Intern

Monastir, Tunisia

- Develop an advanced exam scheduling application using metaheuristic methods, reducing scheduling time by 98%.
- Achieve a 95% compliance rate with stakeholder constraints, significantly enhancing scheduling efficiency.
- Leverage the DEAP library and Python to create genetic algorithms, improving schedule generation accuracy.
- Provide a powerful monitoring application that improves scheduling efficiency, contributing to improved project success metrics.
- Skills: Python, Pandas, NumPy, Matplotlib, MySQL, DEAP, Genetic Algorithm, Excel, Word, Data visualization, Mathematics.

Digital Research & Technologies

May 2023 – August 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%.
- Identified key trends through statistical analysis, enhancing strategic decision-making.
- Improved user satisfaction by 20% through collaborative integration of data-driven solutions.
- Skills: Python, MySQL, AWS Glue, AWS Redshift, HTML5, Selenium, BeautifulSoup, JSON.

Projects

Data Cleaning and Transformation for University Enrollment Data

March 2023

- Built an ETL pipeline to clean, transform, and standardize enrollment data from CSV and spreadsheet sources.
- Loaded processed data into PostgreSQL for efficient querying and analysis by university administrators.
- Skills: Python, Pandas, PostgreSQL, ETL.

Spam Email Detection

June 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.
- Skills: 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.

Machine Learning & AI: Genetic Algorithms, DEAP, CSP, ORTools, Data Analytics.

Data Visualization: Power BI, Tableau, Matplotlib, Pandas, NumPy.

Automation & Web Scraping: Selenium, BeautifulSoup, JSON.

Languages

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