

# malak khouja

Student

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## PROFILE

Mathematics and Computer Science student with a strong analytical mindset and a passion for software development and data science. Currently exploring opportunities to apply my knowledge in real-world projects, particularly in full-stack development, AI, and data-driven applications. Seeking an internship to further develop my expertise and contribute to innovative solutions.

## EDUCATION

### Bachelor's degree in Mathematics and Computer Science

09/2023 – present  
Tunis, Tunisia

Faculty of Science Tunisia

- Developing strong expertise in **mathematics, computer science, and software development**, with coursework in **analysis, algebra, probability, statistics, cryptography, and computer networks**.
- Gaining hands-on experience in **programming (Python, Java, C, R), data analysis (Pandas, NumPy, Matplotlib, Seaborn), database management (MySQL, PostgreSQL), and system administration (Linux)**.
- Skilled in **UML (Unified Modeling Language) for system and software design**.
- Upcoming coursework includes **Big Data, NoSQL, Artificial Intelligence, and Machine Learning**, further enhancing expertise in **data science and advanced computing**.

## PROJECTS

### Data Analysis Dashboard

Python, Pandas, NumPy, Matplotlib, Seaborn, Tkinter

An interactive dashboard that allows users to upload datasets and perform exploratory data analysis. The app generates various visualizations such as bar charts, line plots, and heatmaps to provide insights into data. Statistical calculations like mean, variance, and correlation are also displayed, making it a comprehensive tool for data analysis.

### Calorie Counter

HTML, CSS, JavaScript

A website designed to help users track their daily calorie intake. Users can input the amount of calories they plan to consume for breakfast, lunch, dinner, and snacks. The site calculates the remaining calories based on the user's input and provides a simple, interactive way to manage their diet.

## SKILLS

- Programming Languages: Python, Java, C, R
- Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn
- Databases: MySQL, PostgreSQL
- Web Development: HTML, CSS, JavaScript
- UML: Unified Modeling Language for system and software design

## EXTRACURRICULAR ACTIVITIES

I have been actively involved in student organizations, including IEEE and ATIA, where I participated in workshops, competitions, and technical events. These experiences have enhanced my teamwork, leadership, and problem-solving skills. Additionally, I have earned certificates in various fields, further strengthening my expertise in software development, data science, and AI.