

# Aymen Krifa

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## EXPERIENCE

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### Quicktext

Sousse, Tunisia

*Junior Data Scientist*

*July 2022 - Present*

- Co-led the development of a multi-label intent recognition system for our chatbot, transitioning from single-intent to multi-intent capabilities.
- Utilized BERT and PyTorch to restructure the pipeline, encompassing data processing, model training, and deployment for enhanced multi-intent recognition.
- Jointly oversaw the complete development lifecycle of a state-of-the-art machine learning infrastructure, dedicated to delivering personalized information recommendations to hotel website visitors, leveraging their preferences and conversations from similar visitors through our deployed chatbot.
- Designed and implemented the project's extraction, preparation, modeling, and evaluation stages, focusing on training supervised machine learning models to predict visitor preferences and topics of interest.
- Assisted top management by presenting thorough analyses and complete dashboards of the requested information, enabling data-driven decision-making and strategic planning.
- Mentored and guided new recruits and interns, sharing expertise and best practices to enhance their technical skills and contribute to the team's growth and success.

*Research Intern*

*Feb. 2022 – July 2022*

- Utilized Python to implement various supervised machine learning techniques, including decision trees and random forests, to predict website users' potential trip categories of partnering hotels with an accuracy rate of 70%.
- Obtained, processed, analyzed, and transformed millions of raw data collected from internal databases while adhering to ethical principles and maintaining data integrity.
- Developed and deployed a predictor API using Flask to integrate the model with the company's web application.
- Presented data findings and insights to team leaders on a weekly basis through oral, visual, and written reports, highlighting the significance of the analysis and how it could inform decision-making processes.

### Enova Robotics

Sousse, Tunisia

*Software Engineering Intern*

*Aug. 2020 – Sep. 2020*

- Leveraged technical expertise in C++ and OpenCV to contribute to an object detection project for the new PGuard self-charging feature, resulting in the successful detection of the charging station port.
- Demonstrated strong collaboration skills and adherence to real-life team practices, resulting in effective communication and efficient task completion within the group.

## RELEVANT PROJECTS

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### AutoActivator | [Shell](#), [Python](#), [cURL](#)

March 2023

- Developed a micro-framework to automatically activate Python virtual environments based on project directories for both Z shell and Bash.

## RELEVANT SKILLS

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**Programming Languages:** Python, SQL, C/C++

**Libraries:** Pandas, NumPy, PyTorch, Scikit-Learn, Plotly, OpenCV, FastAPI, MLflow

**Developer Tools:** IPython, Shell scripting, Docker, Git

**Languages:** English (Fluent), French (Full professional proficiency), Arabic (Native)

## EDUCATION

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### Ecole Polytechnique Sousse

Sousse, Tunisia

*Engineer's degree in Computer Science (Night classes)*

*Sep. 2022 – Present (Expected graduation July 2025)*

### Ecole Polytechnique Sousse

Sousse, Tunisia

*B.Sc in Software Engineering and Information Systems*

*Sep. 2019 – July 2022*

- Cumulative GPA: 3.7/4.0, Top of the Class Student Award
- Relevant Coursework: Machine Learning, Probability & Statistics, and Discrete Mathematics