Aymen Krifa

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RELEVANT SKILLS

Programming Languages: Python, SQL, C/C++
Libraries: Pandas, NumPy, PyTorch, Scikit-Learn, Plotly, FastAPI, MLflow
Developer Tools: IPython, Shell scripting, Docker, Git
Languages: English (Fluent), French (Full professional proficiency), Arabic (Native)

EXPERIENCE

Quicktext   Sousse, Tunisia
Machine Learning Engineer   *July 2022 - Present*

- Co-led the development of a multi-label intent recognition system for our chatbot, transitioning from single-intent to multi-intent prediction.
- Restructured the machine learning pipeline using BERT and PyTorch by rebuilding the data processing, model training, and deployment processes, resulting in improved workflow efficiency, and better scalability.
- 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.
- Actively participated in partnership discussions with a leading AI consultancy firm to collaborate on building our in-house LLM.
- Supported top management by presenting comprehensive analyses and data visualizations, enabling data-driven decision-making and strategic planning.
- Mentored and trained new hires and interns, sharing technical expertise and best practices.

Data Science Intern   *February 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   *August 2020 – September 2020*

- Contributed to an object detection project for the autonomous and self-driving security robots' self-charging feature using C++ and OpenCV, successfully enhancing the robot's capabilities by ensuring accurate detection of the charging station port.
- Showcased strong collaboration skills within a real-life team environment, ensuring effective communication and efficient task completion.

RELEVANT PROJECTS

AutoActivator ↗ | *Shell, Python, cURL*   March 2023

- Developed a micro-framework to effectively manage Python virtual environment management by automatically activating and deactivating them based on project directories, supporting both Z shell and Bash.
- Currently utilized daily by the Quicktext data science team, saving time and streamlining redundant tasks.

EDUCATION

Ecole Polytechnique Sousse   Sousse, Tunisia
Engineer's degree in Computer Science (Night classes)   *September 2022 – Present (Expected graduation July 2025)*

Ecole Polytechnique Sousse   Sousse, Tunisia
B.Sc in Software Engineering and Information Systems   *September 2019 – July 2022*

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