Ibourk Youssef

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Education

Sept 2022 to July 2023	University of Sunderland **MSc Data Science** Data Science Fundamentals, Data Science Product Development, Machine Learning and Data Analytics, Technology Management for Organisations, Computing Masters Project.
Sept 2019 to July 2022	Euro Mediterranean University of Fez UEMF **BSc Computer Science** Oriented Object Programming, Probability and Statistics, Network Services, Systems and Databases, Cybersecurity, Human-Machine Interfaces.
Sept 2017 to July 2018	Al Moustakbal 2 School **Baccalaureate in Mathematical Science B** Maths, Physics, Chemistry, Engineering Science, History / Geography.

Work Experience

Jan 2022 to Now — Mariners Fish & Chips
Delivery Driver

Responsibilities include
- Delivering food orders to customers in a timely and efficient manner, ensuring customer satisfaction.
- Maintaining an organized vehicle, ensuring all food orders arrived at their destination in good condition.
- Managing cash transactions, providing accurate change and receipts.
- Demonstrating excellent communication skills by liaising with customers and the restaurant staff to ensure smooth and efficient deliveries.
- Consistently receiving positive feedback from customers on delivery speed and accuracy

June 2021 to Oct 2021 — Café-Pâtisserie Dar Salam
Managing a Café and a Pastry

Responsibilities include
- Maintained excellent customer service by handling customer comments and complaints
- Worked in all areas of the cafe, including the kitchen, with expertise in making pastries, baking baguettes and cakes during peak times
- Fixed technical issues related to simple machinery problems and collaborated with colleagues as part of a team in a fast-paced, pressurized environment
- Managed stock reordering and waste reduction, and also handled financial responsibilities.

Qualifications

March 2023 to May 2023 — Integrated Diabetes Prediction Dashboard
Project with R

- I successfully designed and developed a dashboard of diabetes prediction and conducted comprehensive testing to ensure the functionality and integration of its components. Integration testing validated the seamless interaction between data pre-processing, machine learning, and user interface modules. Functional testing ensured the correct operation of data import, visualization, model building, evaluation, and deployment functionalities. Performance testing evaluated system response time and resource usage during data processing, training, and prediction. Regression testing maintained system integrity when introducing new features. Overall, I gained experience in testing functions, integration, functionality, performance, and regression during the project.

March 2023 to May 2023 — NLP Expertise in Twitter Classification
Project with PYTHON

- I demonstrated proficiency in implementing and evaluating NLP pipelines for tweet classification using techniques like text cleaning, tokenization, and vectorization. My expertise includes training and assessing classification models such as Logistic Regression, SVM, and Naïve Bayes with a focus on accuracy and performance evaluation. I gained extensive experience in interpreting model results, evaluating performance

metrics, and extracting meaningful insights from a large dataset of Tweets using NLP techniques like sentiment analysis and network monitoring.

Nov 2022 to Jan 2023	Anomaly Detection in Astronomy Field using Kepler Dataset
	Project with R

- In This project I developed an R code using the Random Forest algorithm to analyze data collected by the Kepler telescope and identify exoplanet, split the data into a training and testing set, and calculate the accuracy of the predictions. This project improved my knowledge in anomaly detection and skills in R programming, data mining techniques, and machine learning algorithms. The project allowed me to gain experience in data pre-processing, model building, and data visualization, which improved my ability to work with large datasets and derive insights from them. I also gained a deeper understanding of the subject matter in the astronomy field.

Nov 2022 to Jan 2023	Data Integration and Relational Database Mapping with Python
	Project with PYTHON

- I produced an ETL (Extract, Transform, and Load) Python program that combines multiple data sources provided in a variety of formats, wrangling, handling and processing the large amount of data into a homogenous record, then automatically mapping them into a Relational Database System using modern tools. For example, I was able to extract data from a JSON file containing customer information, transform it by removing duplicates and standardizing the data, and then load it into a database using PonyORM. Through this project, I gained qualifications in Python programming, data wrangling, relational database management systems, data integration, documentation, presentation and communication, and problem-solving.

March 2022 to May 2022	Number Plate Detector
	Project with MATLAB

- I developed an application that analyzes vehicle images and extracts license plate information using image segmentation. We employed various techniques, including automatic thresholding, edge-based methods, and morphology-based methods, to determine region boundaries and extract meaningful information. By comparing the extracted license plate information with a large dataset in our database, we obtained accurate text that could be copied and pasted into another database containing the car and owner's information.

Dec 2021 to Jan 2022	Line Follower Robot
	Project in Mechatronics Arduino

- I led a team of six classmates in creating a line-following robot based on a three-wheeled car. The robot was designed to follow a line using two sensors, and we added various features through hardware implementation and coding to create a highly effective line-following robot that was recognized as the best in its class.

Nov 2021 to Jan 2022	Enterprise Network
	Project in Network Services and Systems

- Based on Linux OS, we created an enterprise network that facilitates communication between devices. The network utilizes a DHCP Server to assign IP addresses, a DNS Server to translate domain names to IP addresses for browsing, an HTTP Server to deliver website content, an FTP Server to transfer files within the network, and an SMTP Server to send and receive emails under the same server.

Achievements

June 2016	**Nominated as the Best Player in my football team**

- As a member of the Maghreb Association Sportive de Fes (MAS) football club, I was recognized as the team's best player during the season in which we secured second place in the league. I exhibited discipline and consistency throughout the season, arriving early to every training session and match-day to help foster a positive team environment. In my role as captain, I developed excellent communication, interpersonal, and leadership skills, thanks to the guidance of our talented coach, Faycel Mengad, to whom I owe much credit.

Additional Skills

- Fluent in English, French, Arabic, and knowing the communication basics in Spanish.
- Earned online certificates related to my studies field, Image Processing, Machine Learning.
- Proficient user of the main programming languages, C/C++, Python, Java, R.
- Experience in working with SQL, mysql, oracle, mongodb, apache and database management systems.
- Knowledge of web development technologies such as HTML, CSS, and JavaScript.