

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 Master's Project.

Sept 2019 to July 2022

Euro Mediterranean University of Fez UEMF

BSc Digital Engineering and Artificial Intelligence

Oriented Object Programming, Probability and Statistics, Network Services, Systems and Databases, Cybersecurity, Human-Machine Interfaces.

Sept 2017 to July 2018

Al Moustakbal 2 School

A-level, Maths, Physics, Chemistry, Engineering Science

GCSE, Maths, French, English, History / Geography

Work Experience

May 2023 to Now

Fast-food restaurants

Delivery Driver

- Efficiently deliver food orders, maintain vehicle, manage cash transactions, and ensure customer satisfaction with exceptional communication. Consistently praised for speedy and accurate deliveries.

July 2022 to Mar 2023

L'AIGLE WANDOU

Logistics and Supply Chain

- As a Logistics and Supply Chain intern at L'AIGLE WANDOU, I collaborated with the logistics team to analyse and optimize supply chain processes, which included designing and implementing an inventory management system. This system enhanced inventory control, reducing waste, carrying costs, and ensuring product availability. I leveraged data analysis and visualization tools, such as Tableau and Power BI, to gain insights into supply chain performance and support informed decision-making. My role also involved creating reports and dashboards to facilitate decision-making. I played a vital role in ensuring punctual deliveries and minimizing order fulfilment errors. Additionally, I worked closely with cross-functional teams to troubleshoot technical issues related to production and distribution processes. This experience provided me with practical insights into supply chain optimization, resource allocation, and production scheduling, furthering my understanding of logistics and supply chain management.

June 2021 to Oct 2021

Café-Pâtisserie Dar Salam

Managing a Café and a Pastry

- Provided exceptional customer service, handled comments and complaints, worked across all café areas, excelling in pastry and baking tasks. Managed stock, reduced waste, and addressed technical issues in a fast-paced team environment.

Qualifications

Jan 2023 to July 2023

Melody to symphony: Music Generation system from humming

MSc Dissertation

- I developed an innovative music generation system utilizing AI and deep learning techniques to compose music from vocal input. This project stands out as one of the best MSc dissertations, underpinned by rigorous research that drew from established AI-driven music composition methodologies. The system's meticulous design prominently features the implementation of Recurrent Neural Networks and WAVE2MIDI2WAVE conversion for precise melody transcription and music generation. Notably, the project was successfully delivered as a webserver-based application, combining technical prowess with user accessibility. The project's outcomes serve as a testament to its excellence, demonstrating the system's remarkable ability to accurately transcribe hummed melodies and create coherent music. This endeavour significantly bolstered my expertise in AI, machine learning, deep learning, data pre-processing, model development, and user-centred system design. Moreover, it contributes to the burgeoning realm of AI-driven creative applications, solidifying its status as one of the finest MSc dissertations our university have had.

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

- I developed an R-based project that utilized the Random Forest machine learning algorithm to analyse data collected by the Kepler telescope for exoplanet identification. The project involved data splitting into training and testing sets, accuracy calculation, and contributed to my expertise in anomaly detection, data mining techniques, and machine learning algorithms. It provided valuable experience in data pre-processing, model development, and data visualization, enhancing my proficiency in handling large datasets and extracting meaningful insights. Additionally, this project deepened my understanding of 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. Through this project, I gained qualifications in Python programming, data wrangling, relational database management systems, data integration, documentation, and problem-solving.

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 2021 **Entrepreneurship**

- awarded for an entrepreneurial venture and business achievements, including successful startups and business initiatives.

Jan 2020 **Public Speaking**

- Received recognition for outstanding performance in public speaking, and debate competitions.

June 2018 **Nominated as the Best Player in my football team**

- Nominated as Best Player in the Maghreb Association Sportive de Fes (MAS) football club during a season where I was rewarded for the team's best player, and we secured second place in the league. Demonstrated discipline, consistency, and leadership as team captain, fostering a positive team environment.

Additional Skills

- Fluent in English, French, Arabic, and Tamazight with a foundational understanding of conversational Spanish.
- Earned many 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 other database management systems.
- Proficient in utilizing data visualization tools such as Power BI for creating insightful and interactive dashboards.
- Skilled in web scraping techniques to gather and analyse data from various online sources.
- Knowledge of web development technologies such as HTML, CSS, and JavaScript.