

Achraf E.

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SUMMARY

Highly skilled **MSc Data Science** graduate with **3+** years of data analytics experience. Expertise in large dataset analysis, machine learning models, and data quality enhancement using **Python, SQL, R, TensorFlow, and Scikit-Learn**. Seeking entry-level **Data Scientist** or **Analyst** roles. **I have the right to work in the UK.**

EDUCATION

MSc in Data Science, 2:1 | Coventry University | Jan 2022 – Jan 2023 | Coventry, UK

- **Modules:** Principles of Data Science (**79%**), Information Retrieval (**77%**), Machine Learning (**78%**)
- **Dissertation:** Enhancing Face Recognition Systems with Machine Learning and Deep Learning Algorithms

BSc Software Engineering | Universiapolis International University of Agadir | Sep 2018 – Sep 2021 | Agadir, Morocco

- **Modules:** UML, Java, C++, C, PHP, Database Management Systems, Computer Networks, HTML, CSS
- **Project:** Invented a smart home automation system using Arduino and Bluetooth for lighting, temperature, and security control, focusing on energy efficiency and innovative technology applications

WORK EXPERIENCE

Data Science Intern | Buy It Marketplace | Feb 2024 – Apr 2024 | London, UK

- Analysed **1.2M** food products with **Python** and **Pandas** to achieve a **36%** Eco-Score, enhancing sustainability metrics
- Implemented data cleaning and preprocessing pipeline, improving data quality by **40%** for detailed attribute analysis
- Managed a cross-category data accuracy study for **10+** categories & **20+** brands with **Scikit-Learn**, increasing accuracy by **25%**

Preparation Administrator | AQA Examination Board | May 2023 – July 2023 | Manchester, UK

- Ensured **100%** on-time delivery of exam results nationwide by optimising marking and moderation processes
- Led **5** training sessions for colleagues & maintained professional relationships with **15+** lead examiners across the UK

PROJECTS

Athlete Face Recognition

- Built an **85%** classification accuracy model by using **Python, TensorFlow** and **wavelet transform** features
- Increased image processing speed by **30%** using **OpenCV** and **Haar Cascades** for sophisticated face and eye detection
- Leveraged **GridSearchCV** to fine-tune model parameters and significantly boost classification accuracy, outperforming alternative algorithms

Building a Spam Filter with Naive Bayes

- Developed a **Python** Naive Bayes spam filter, achieving an outstanding accuracy of **98.74%** on **1,114** SMS messages
- Created data cleaning process using **Pandas** & **NumPy** to ensure high data quality for model training
- Enhanced spam filter performance and reliability by applying **Laplace smoothing** and strategic parameter tuning, achieving superior classification results

LANGUAGES AND SKILLS

- **Languages/Technologies:** Python, R, SQL, Jupyter Notebook
- **Data Analysis:** Scikit-Learn, NumPy, Pandas, Seaborn, Matplotlib, Microsoft Excel
- **Machine Learning:** TensorFlow, Keras, OpenCV, Linear and Logistic Regression, Segmentation, Support Vector Machines, K-nearest Neighbor, Neural Networks, Decision Tree
- **Spoken Languages:** English (fluent), French (fluent), Arabic (native)