FEDERICO ARITON

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For examples of my work in Data Analytics please visit my Webpage: federicoariton.com

PROFILE

Data Analyst with hands-on experience transforming raw data into actionable insights through academic projects and freelance work. I specialize in data cleaning, preprocessing, exploratory data analysis (EDA), and building machine learning models using **Python** (**Pandas**, **NumPy**, **Scikit-learn**) and **SQL**. I create interactive dashboards and data applications with **Streamlit** and **Dash**, focusing on visual storytelling and decision-making support. I am proficient in **Excel**, **Jupyter Notebook**, and workflow automation techniques to support reporting and analysis tasks.

Currently pursuing a **Master of Science in Data Analytics (NFQ L9)** at CCT College Dublin. I've completed projects involving **machine learning**, **clustering**, **time series forecasting**, **market basket analysis**, and **recommendation systems**. These experiences have built my capabilities in predictive modeling, statistical analysis, and retail/business intelligence. I'm passionate about applying data-driven approaches to real-world problems and eager to contribute to a collaborative, data-centric team while continuing to develop my skills in end-to-end data workflows, real-time analytics, and delivering practical, business-focused data solutions using modern open-source tools. I also hold a **Higher Diploma in Data Analytics (NFQ Level 8)** and a **Diploma in Software Development (NFQ Level 7)**, which provide me with a strong foundation in both analytical thinking and programming. **Looking for Summer Internships, Entry Level and Graduate Roles in 2025.**

Key Skills

- **Data Analysis:** Skilled in cleaning, analyzing, and visualizing data to identify patterns and trends.
- **Programming**: Proficient in **Python (Pandas, NumPy, Matplotlib, Scikit-learn) and SQL** for querying databases, **Java**, **Html**, **CSS**, **JavaScript**.
- **Machine Learning:** Familiarity with regression, classification, and clustering techniques
- **Data Visualization:** Expertise in storytelling and creating interactive dashboards with Python and deploying them using **Streamlit.**
- **Statistics:** Understanding the implementation of statistical methods, hypothesis testing and data distribution.
- **Critical Thinking:** Strong ability to interpret data and generate actionable recommendations.
- **Team Collaboration:** Experience in group projects, collaborating to achieve objectives.
- **Project Management:** Skilled in organizing and executing data projects to meet deadlines.
- **Business Analytics:** Ability to analyze market trends and customer behavior.
- **CRM & Data Management:** Understanding of customer databases and lead tracking **(Salesforce, SQL).**
- **Languages: Italian (Native) Fluent in Spanish, Romanian and English**

EDUCATION

CCT College Dublin | 2022 – Present

Master of Science (MSc) in Data Analytics - NFQ Level 9 Major Award [2024-Present]
Key Modules: Advanced Data Analytics, Programming for Data Analytics, Predictive Modeling, Machine Learning, Research and Professional Ethics, Big Data Storage and Processing and Advanced Data Analysis

Project: Production and Export Analysis in Agriculture
- Analyzed how production factors influence export values in Ireland's agricultural sector using statistical and predictive modeling techniques.
- Built an interactive dashboard to visualize trends, employing tools like **Python, Pandas, Matplotlib, Seaborn and deploy with Streamlit.**

- Applied **CRISP-DM methodology**, incorporating skills in data cleaning, feature engineering, and hypothesis testing to derive actionable insights.
- **View GitHub: Master Project – AgriExportTrends**
- **View Dashboard: Interactive Dashboard**

Higher Diploma in Data Analytics for Business – NFQ Level 8 Major Award [2023-2024]
Key Modules: Strategic Thinking, Machine Learning, Statistical Techniques for Data Analysis, Data Preparation, Data Visualization Techniques, Machine Learning for Business
- Achievement: Second-Class Honors Grade 2

Project 1: Employee Satisfaction and Productivity Analysis
- Conducted statistical analysis and machine learning modeling (Random Forest, ANN) to predict employee attrition and improve satisfaction.
- Developed expertise in hypothesis testing (ANOVA, t-tests) and dimensionality reduction (PCA, LDA).
- Gained hands-on experience in data preprocessing, including scaling, encoding, and imputation strategies.
- **View GitHub: Employee Satisfaction & Productivity**

Project 2: Online Retail Interactive Dashboard
- Designed and deployed a Dash-based interactive dashboard for online retail sales analysis, targeting users aged 18–35.
- Leveraged advanced data visualization techniques, incorporating geographical analysis and customer segmentation.
- Gained proficiency in using Dash, Plotly, and Pandas for building web-based analytical applications.
- **View GitHub: Online Retail Dashboard**

Project 3: Database Design and Queries with MySQL
- Designed and normalized a relational database schema for employee management, achieving 3NF.
- Wrote complex SQL queries for data retrieval, aggregation, and manipulation.
- Enhanced skills in ER modeling, database normalization, and advanced SQL functions like views, joins, and stored procedures.
- **View GitHub: Database Design & MySQL Queries**

Diploma in Applied Software Development - NFQ Level 7 Special Purpose [2022-2023]
- **Key Modules**: Object-Oriented Programming, Database Management, Web Development
- **Achievement**: Distinction
- **Skills**: Java, · User Stories · Agile & Waterfall Methodologies · PHP · HTML · Cascading Style Sheets (CSS) · Mathematics · JavaScript · Use Case Diagrams · GitHub · Bootstrap (Framework) · Notepad++ · Ionic Framework · MySQL

Project: News & Weather App (Mobile App Developer – Academic Project)
- Developed a cross-platform mobile app providing real-time news and weather updates.
- Integrated news and weather APIs for live data retrieval.
- Focused on UX/UI design with a tab-based navigation system.
- Technologies used: Ionic Framework, Angular, TypeScript, API Integration.
- **View GitHub: News & Weather App**

Cooking and Gastronomy
IES Jandia (Spain) | 2017 – 2019
- Culinary Arts, Pastry, Business and Restaurant Management

PROFESSIONAL EXPERIENCE

While pursuing my Diploma, Higher Diploma, and Master's, I worked full-time to support my studies and living expenses in Dublin. During my Diploma, I was a chef in Temple Bar, managing high-paced kitchen operations. For my Higher Diploma, I worked as a chef in agency recruitment, adapting to diverse kitchen environments. In my Master's, I worked full-time initially but I am currently focusing on completing my studies in data analytics.

Chef

ECS Recruitment, Dublin | 2024 – 2024
- Managed high-pressure environments, demonstrating adaptability and problem-solving skills
- Collaborated with diverse teams to deliver high-quality results efficiently

Chef

The Norseman Dublin, Temple Bar | 2021 – 2023
- Maintained consistency and quality in customer service
- Contributed to operational efficiency by streamlining workflows

Kitchen Assistant and Cook

Kitchen Assistant and Cook
Hotel R2 Rio Calma | 2019 – 2020
- Operated in fast-paced, high-volume environments, demonstrating time management and attention to detail

CERTIFICATIONS / JOB SIMULATIONS / PROFESSIONAL DEVELOPMENT

2025   **British Airways** via The Forage **– Data Science Job Simulation** (Intermediate)

2025   **BCG X** via The Forage – **Data Science Job Simulation** (Advanced)

2025   **SQL** via Hacker Rank - **Certificate** (Basic)

2025   **Python** via Hacker Rank – **Certificate**(Basic)

2025   **Lloyds Banking Group** via The Forage – **Data Science Job Simulation**(Advanced)

2025   **Financial Forecasting with Analytics** Essential Training – **Certificate** (Intermediate)

INTERESTS

- **Learning and Networking**: Actively following data science communities such as Medium, Kaggle, Reddit's r/data science, and LinkedIn groups to stay updated on industry trends and best practices.
- **Continuous Learning**: Regularly exploring advancements in data science and machine learning through research articles ScienceDirect, *arXiv*, *Towards Data Science*, and *Google AI Blog* and practical experimentation.