María Aguilera García

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PROFESSIONAL SUMMARY

Big data, machine learning, coding, coding and data science passionate. Eager to learn and create value by leveraging my strengths: people, initiative, numbers, and languages. A self-sufficient, motivated, and hardworking student inspired by highly demanding challenges and learning opportunities. Upbringing spent in a wide range of countries fostered a great sense of multiculturalism and respective linguistic skills allowing me to relate and feel comfortable with every kind of person.

EDUCATION

IE School of Human Sciences and Technology

Madrid, Spain

Master in Business Analytics and Big Data (specialization in Applied Artificial Intelligence)

SEPT. 2021 - JUL. 2022

Relevant courses: Python | Machine Learning | Deep Learning | Reinforcement Learning | NLP | Time Series Forecasting | SNA

Carlos III University of Madrid

Madrid, Spain

Bachelor in Business Administration

SEPT. 2016 – JUN. 2021

Honours in Financial Economics | Excellence in Game Theory, Econometrics, Statistics, Information Skills

PROFESSIONAL EXPERIENCE

Ernst & Young (EY) Madrid, Spain

Audit Intern Analyst

JAN.2020 - MAY 2020

- Assigned to two clients: a major client in the Renewable Energy sector that was subject to PCAOB regulation and listed on the NASDAQ, and a less demanding
 client that resulted in a smaller team with more responsibility.
- Prepared, analyzed, and validated annual reports to develop comprehensive audit working papers and communicated with global team members around developed advanced Microsoft Excel and attention-to-details skills.

Compañía Española de Algas Marinas S.A (CEAMSA)

Vigo, Spain

Tech & Finance Intern

JUN. 2019 – JUL. 2019

• Helped the Finance department with banking activity reconciliation, month-end close, and journal entries. As a tech assistant, received training from the IT department on SAP Business One in order to give support and resolve technical issues in all other departments.

Santander Bank Polska Warsaw, Poland

M&A Intern

JUN. 2018 – JUL. 2018

• S&P Capital IQ, Bloomberg and Merger Market were used to conduct and monitor corporate and industry-specific analysis, in order to create reports and presentations for superiors to use in negotiation meetings.

TECHNICAL SKILLS

- General Knowledge: Statistics | Econometrics | Machine Learning | Deep Learning | Reinforcement Learning | NLP | MSOffice | Advanced Excel | Git | GitHub
- Programming Languages: SQL | R | PySpark | Spark | Scala | Python (Pandas, Matplotlib, Seaborn, Scikit-learn, NumPy, XGBoost, TensorFlow)
- RDBMS: IBM DB2 | MySQL | Spark SQL
- NoSQL: MongoDB
- Analytics: Power BI | Google Data Studio | Google Analytics
- Big Data Frameworks: Hadoop HDFS | Apache Spark
- Streaming & Messaging: Spark Streaming | Apache Kafka | Apache NiFi

MAJOR PROJECTS

Corporate Data Breaches and Narrative Disclosures (Undergraduate Thesis Project & 2019,2020 INNCYBER Innovation Award, Grade 9.7/10)

- The goal was to examine how data breaches affect corporate communication of public U.S. data breached firms by examining whether managers engage in
 managerial discretionary disclosure behaviour in the 10-K annual reports or whether they provide incrementally useful information aimed at enhancing
 decision making by filing infrastructure gaps.
- Skills: R (Tidy verse, ggplot2, lubridate, PostgreSQL) | Fuzzy Matching (Fuzzy Lookup Add-in| Econometrics & Statistics (DID, Logit, Fixed Effects)

Raw Material Forecasting of Industrias Duero (Master Thesis Project)

- With five classmates, optimized the supply chain cycle to improve the company's inventory turnover by predicting the demand and volume of raw material.
- Implemented predictive modelling strategies using machine learning, data science and time series forecasting techniques (e.g., ARIMA, ARMA, SARIMA, GARCH) and big data analysis (>1.5 M data points)
- <u>Skills:</u> Python | Facebook Prophet | Time Series Analysis & Forecasting | XGboost | Catboost | Microsoft Power BI

Forest Cover Type Prediction (Machine Learning II Project, Grade: 10/10)

- Goal was to attain the highest accuracy score compared to the other teams. Analyzed, cleaned, pre-processing and feature engineering for the creation of machine learning models.
- Skills: Python | Matplotlib | Seaborn | Plotly | Scikit- learn Pipelines | Grid search | Hyperparameter Configuration | Data Visualization

Bike Sharing Analysis (Python II Group Project, Grade: 10/10)

- Goal was to predict the total number of Washington D.C bicycle users on an hourly basis.
- Skills: Exploratory Data Analysis | Data Cleaning & Analysis | Time- Based Cross Validation | Python

Analysis of Formula 1 User Interactions on Twitter (Modern Data Architectures Project)

- Using five datasets containing circuit information, and ingesting tweets with the hashtag "#F1" we analysed the ways in which teams, cities and sponsors can gain returns on their investments.
- <u>Skills:</u> Apache Nifi | HDFS | Apache Spark | PySpark

Instagram Graph Analysis and Community Detection Algorithims (Social Network Analysis Project)

- Using GraphX and graph algorithms to analyze and explore different patterns and communities.
- <u>Skills:</u> Python | GraphX | Community Detection Algorithims

Elemetrica LLC Text Classification Model (Natural Language Processing Project)

- As the company's data was structured differently in each POS, developed a text classification model to unify each product into a unique code.
- <u>Skills:</u> TF-IDF| Stemming | NLP | Scikit-learn| NLTK | Pandas | Class Imbalance

LANGUAGES

English (Native) | Spanish (Native) | French (Conversational) | Portuguese (Basic)

VOLUNTEER EXPERIENCE

- Took care of orphan children living in poor conditions in the village of Holeta and helped them learn some essential math and English skills (Cooperating Volunteers Ethiopia Jul. 2017)
- In charge of kids in the worst conditions whose parents were sick (Hospital Municipal Miguel Couto -Brazil, May 2016)
- Participated in a cataract surgery expedition. Setting up, cleaning, sterilizing equipment as well as the proper transfer of materials between non-sterile environment and surgeon (Fundación Barraquer Dominican Republic, Aug. 2015)

OTHER INTERESTING INFORMATION