Fernando Borrero Granell

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PROFESSIONAL SUMMARY

Recently graduated from Ironhack's Data Analytics Bootcamp. I would like to pair my programming skills with my mathematical background from University to join the world of Data Analysis. I continue to stay up to date by teaching myself new technologies and best practices by using online resources as well as academic books on certain technical areas such as Statistical Inference or Machine Learning.

EDUCATION

- IRON HACK (SEPTEMBER 2022 – NOVEMBER 2022)   **REMOTE, SPAIN**
  Full Time Data Analytics Bootcamp
    - Data Analysis using Python (Pandas, NumPy) & MySQL.
    - Data Visualization (Tableau, Plotly & Seaborn).
    - Build, Evaluate & Deploy Machine Learning Models and Pipelines (Scikit-learn).
    - Inferential Statistics in Python & Business Intelligence.
    - Data Wrangling, Data Cleaning, API & Web Scraping.

- UNIVERSITY OF SEVILLE (2016 – 2020)   **SEVILLE, SPAIN**
  Completed 75% of the credits towards a Degree in Physics
    - Mathematical methods, Linear algebra & Geometry, and Mathematical Analysis.
    - Scientific programming, Numerical methods & Simulation and Statistical mechanics.

PROFESSIONAL EXPERIENCE

PROJECTS

- **XGBOOST FOR CAR PRICING** https://fbgranell.com/projects/car-price-model/
    - Developed a machine learning model powered by XGBoost with an $R2$ score of 0.95.
    - XGBoost, Webscrapping, Deep Learning, Machine Learning, Exploratory Data Analysis.
- **FINANCIAL FRAUD DETECTOR** https://fbgranell.com/projects/fraud_detector/
    - Developed three machine learning models that detect up to 99% of fraudulent transactions.
    - Deep Learning, Machine Learning, Random Forest, Exploratory Data Analysis.
- **SPOTIFY RECOMMENDER SYSTEM** https://fbgranell.com/projects/song_recommender/
    - Conceived a song recommender by clustering over 60.000 songs with similar audio features.
    - Unsupervised Machine Learning, APIs, Web Scrapping, Python.
- **TRAFFIC FLOW AND AIR QUALITY IN MADRID** https://fbgranell.com/projects/traffic_air_madrid/
    - Analyzed the correlation between air quality and traffic flow for +6 years in Madrid.
    - SQL, Python, Machine Learning, Regression, Data Processing, and Data Analysis.

ASTROPHYSICS, UNIVERSITY OF OXFORD
OXFORD, UNITED KINGDOM (JULY 2019- SEPTEMBER 2019)
SUMMER INTERNSHIP

- Learned C++ and Python to use standard tools for the management, analysis, and visualization of data.
- Absorbed the astronomical and dynamical background required to interpret data from ESA's Gaia mission.
- Analyzed both spatial coordinates and proper motions from RR Lyrae stars throughout the galaxy.
- Developed the first steps towards a new dynamical model of the population of RR Lyrae stars.

LANGUAGES

- **Spanish (Native)**
- **English (Advanced).** Official CAE/C1 at Cambridge English Qualifications (Seville, 2019)

SKILLS

PYTHON | EXCEL | SQL | APIS | WEBSCRAPPING | STATISTICS | TABLEAU | MACHINE LEARNING MODELS | MATLAB |