Fernando Borrero Granell

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PROFESSIONAL SUMMARY

Recently graduated from Ironhack's Data Analytics Bootcamp, and before that I was studying physics. I would like to pair my programming and mathematical skills to join the world of Data Analysis. I continue to stay up to date by teaching myself new technologies and best practices by using both online resources (including Coursera, Kaggle and YouTube) as well as academic books to improve my background 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, Mathematical Analysis.
  - Scientific programming, Numerical methods & Simulation and Statistical mechanics.

PROFESSIONAL EXPERIENCE

PROJECTS

- **FINANCIAL FRAUD DETECTOR** https://github.com/fbgr/financial-fraud-detector
  - Developed three machine learning models that detect up to 99% of fraudulent transactions.
  - Python, Deep Learning, Machine Learning, Exploratory Data Analysis.
- **SPOTIFY RECOMMENDER SYSTEM** https://github.com/fbgr/spotify-recommender
  - Conceived a song recommender by clustering over 60.000 songs with similar audio features.
  - APIs, Web Scrapping, Python, Unsupervised Machine Learning.
- **TRAFFIC FLOW AND AIR QUALITY IN MADRID** https://github.com/fbgr/analysis-traffic-airquality-madrid
  - Analyzed the correlation between air quality and traffic flow for +6 years in Madrid.
  - SQL, Python, Machine Learning, Regression, Data Processing, Data Analysis.

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

- Absorbed the astronomical and dynamical background involved in the interpretation of data from ESA's Gaia mission.
- Learnt C++ and Python programming languages to use standard tools for the management, analysis and visualization of data.
- 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 |