Erika Gutierrez

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EDUCATION

Barcelona School of Economics **Barcelona, Spain**
Master Program in Data Science for Decision Making September 2022 - July 2023
GPA: 8.66/10
Thesis: Forecasting BiciMAD Hourly Demand Using Machine and Deep Learning Methods

University of Florida **Gainesville, FL, United States**
B.A. Economics, Minor in Sustainability, Certificate in GIS August 2017 – May 2019
GPA: 3.7/4.0 (Summa Cum Laude)
Thesis: Evaluating Effectiveness of Residential Heat Pump A/C Rebate Programs Using OLS

PROFESSIONAL EXPERIENCE

Data Science Consultant November 2023 – Present
United Nations Satellite Centre
- Fine-tuned an open-source satellite imagery computer vision deep learning model using transfer learning and cloud computing infrastructure
- Facilitated weekly meetings and regular review sessions with cross-functional teams, ensuring seamless communication and coordination among project stakeholders

Julius
- Implemented end-to-end modelling process for multiclass prediction, including labeling scheme, model training with hyperparameter optimization, and evaluation.

World Bank
- Preprocessed large-scale panel and geospatial datasets to maintain data integrity and enhance usability, integrating logistic regression for predictive modeling and leveraging Markov chain analysis to model sequential dependencies for improved decision-making processes

UK Foreign, Commonwealth & Development Office
- Engineered novel features to enhance a country-level conflict prediction model, contributing to the platform conflictforecast.org

RE Tech Advisors **Washington D.C., United States**
Analytics Associate February 2021 – May 2022
- Optimized data collection process to expand energy consumption reporting capabilities for 3+ clients using HTTP request methods, reducing aggregation time by 95% per property
- Created new client capital expenditure tool by designing the database architecture and data processing algorithm, resulting in enhanced dashboards and insights

Data Analyst June 2019 – February 2021
- Increased accuracy of regulatory energy consumption reporting requirements for commercial RE clients by 75% through design and implementation of geospatial software
- Presented case studies and led workshops on firm analytics tools and resources to online audience of ~50 people
- Owned and managed analytics team's source codes and data processes end-to-end, including extraction, storage, analysis, visualization, and documentation for 10+ clients using Python and SQL Server Management Studio

SKILLS

Languages: English (native), Spanish (advanced), German (intermediate)
Programming: Python, R, SQL, Power BI, Excel, Cloud Computing, Git, API Management