Marcela Galvis Restrepo

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Research Data Scientist

GitHub: marcelagalvisres LinkedIn: marcelagalvis

SKILLS

Tools and Languages

Python ETEX, MarkDown

Quantitative Research Mathematical optimization, Mathematical Modeling, R

Communication English (fluent), Spanish (native speaker), German (Basic understanding)

RELEVANT TECHNICAL EXPERIENCE

PhD Researcher / Machine Learning Group (Prof. Dolores Romero Morales)

 $08\,2018 - 05\,2022$

Copenhagen Business School

Copenhagen, Denmark

- Exceptional organization and project management skills demonstrated by leading the project "Feature reduction for Classification: an algorithmic approach", resulting in data validation and development of state-of-the-art statistical and machine learning methodologies
- Achieved robust statistical models by defining the problem statement, collecting data and building analytical models
- Clearly communicated the results of my statistical modeling to a variety of audiences, by using scientific computing and analysis packages such as ggplot2 resulting in collaboration across disciplines
- Reliable data handler, evidenced by veteran technical knowledge of R for data extraction, cleaning, analysis and presentation for medium to large datasets
- Achieved significant improvement of the interpretability and fairness of classification models, by designing algorithms for feature shrinkage with complex data

Knowledge Management Consultant / Text analytics

 $08\,2017 - 07\,2018$

Inter-American Development Bank

Washington, District of Columbia USA

- Improved project management by extracting and analyzing text on lessons learned from the development projects financed by the Bank
- Achieved more efficient processing of text data by implementing the use of Natural Language Processing tools to the analysis of Lessons Learned from Development Project documents funded by the bank
- Reliable handling of complex, unstructured data, using R and Python
- Clearly summarised and communicated the text data analysis strategy through dashboards, blog posts and other media supporting the business case for using text analytics as a knowledge management tool in the organization

Statistical analyst / Education Quality

Medellin City Education Secretary

082014 - 062017

Medellin, Colombia

- Improved decision making at the city level by transforming data into actionable insights on where to invest the money according
 to quality needs
- Supported schools in their efforts to increase education quality, by designing and maintaining a statistical model that measured education quality in real time
- Implemented better targeting strategies for schools in need of support, using unsupervised learning techniques such as clustering and PCA
- Transformed and Excel based tool to monitor education quality, into a web-based application with reliable insights and continuous support
- Reliably handled data on hundreds of thousands students and hundreds of schools, using veteran skills in data extraction, cleaning, analysis and presentation

EDUCATION

PhD in Supervised Machine Learning, Copenhagen Business School, Denmark

June 2022

M.Sc. in Economics, *University of Jena, Germany*

September 2013

B.Sc. in Economics, *Universidad de Antioquia*, *Colombia*

September — 2009

ACTIVITIES

Steering board member: Network for European Data Scientists NeEDs project

Invited to organize a session: EURO Operations Research Conference, Session organizer

2019 — 2022 Summer 2022

Invited talk: INFORMS Annual Meeting, United States (Online)

November 2020

Invited talk: CLAIO2020, Madrid (Online)

August 31-September 2, 2021