MARIANA CHAVES

Statistician and data scientist

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ABOUT ME

I'm a **statistician and data scientist** with 7 years of working experience in data modeling, visualization, extraction, and transformation. Recently, I have been researching natural language processing techniques and text models in the context of fallacy detection and classification. I also worked in explainable and interpretable AI. In particular, with prototype-based interpretable neural networks and local interpretable model-agnostic explanations (LIME).

WORK EXPERIENCE

Research Engineer

Inria, France

📅 2023 - Present

Research in natural language processing (NLP) focused on models and techniques that utilize argumentation and other text data derived features to identify fallacious arguments in social media and political debate contexts.

Research internship

I3S and Inria, France

📅 2022

Research on prototype-based interpretable neural networks, other text classification models and NLP techniques applied to the understanding of gender representation in visual media.

Research internship

Inria and Université Côte d'Azur, France

📅 2021

Research on model agnostic interpretability methods in the ambit of images. More specifically, improving resampling process for local interpretable model-agnostic explanations (LIME).

Data scientist

Walmart Supply Chain Analytics USA

📅 2018 - 2020

Directed and developed data analysis projects. Main projects included an anomaly detection system, statistical sampling design, and consumption layer design.

Data analyst

Walmart Supply Chain Analytics USA

📅 2017 - 2018

Data extraction, transformation, and visualization. Main projects included statistical process control techniques and KPI development.

Data analyst

BAC Credomatic Regional Compliance Management, Costa Rica

📅 2016

Developed money laundering detection models for five Central American countries.

EDUCATION

MSc Data science and artificial intelligence

Université Côte d'Azur (UCA), France

📅 2020 - 2022

🎖 Honors Graduate (*Mention Très Bien*)

Bachelor in Statistics

University of Costa Rica (UCR), Costa Rica

📅 2013 - 2017

🎖 Honors Graduate

AWARDS

🎖 **Highest GPA among Statistics majors for three consecutive years: 2013, 2014, 2015.**
University of Costa Rica (UCR)

🎖 **Honorable Mention: Ninth highest score on Admission Exam 2012.**
University of Costa Rica (UCR)

🎖 **Honorable Mention: Highest score on Admission Exam 2012.**
Technological Institute of Costa Rica (TEC)

MAIN SKILLS

Python · R · LaTeX · SQL

LANGUAGES

English - C1
Spanish - C2 (Native)
Portuguese - B2/C1
French - B2

PUBLICATIONS

Pierpaolo Goffredo, Mariana Chaves, Serena Villata, and Elena Cabrio. 2023. Argument-based Detection and Classification of Fallacies in Political Debates. EMNLP.