Pedro Henrique Muniz Lima

Data Analyst/Scientist

📱 (43) 680 1152366

🌐 github.io/Pedrolima/
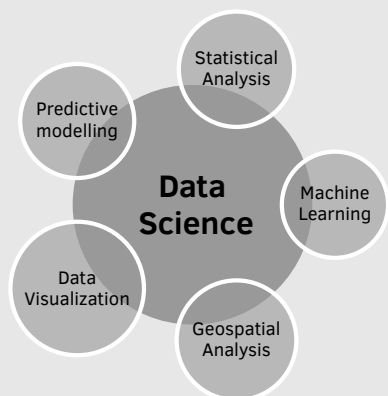
✉ pedrohe@gmail.com

in /in/pedrolima-ds/

Technical Skills

Overview

Programming

🐍 - Python

🛢 - SQL ● LaTeX

Ⓡ - R ● Git ● Agile framework

🌐 - Geospatial analysis tools

Languages

German

English

Portuguese

Education

PhD., Geography
Topic: Statistical and ML methods for natural hazards spatial prediction
University of Vienna - **UNIVIE**
2016 - 2022 | Vienna, Austria

Professional experiences

| Sep 2021 - now | **Position: Researcher** 🏛 | **University of Vienna** |

- Currently working as a researcher within the MoNOE project (*Methodenentwicklung für die Gefährdungsmodellierung von Massenbewegungen in Niederösterreich*) at the University of Vienna.
- Re-evaluation of old landslide prediction model currently used in spatial planning and urban development, over newer landslide data to determine the quality of old predictive models.
- Integration of large database of landslide in a newer landslide predictive model using statistical predictive modelling.Including data handling, modelling, validation and interpretation.
- Publication writing and conference participation.
- **Main tech tools used**: ArcGIS, R, QGIS and Git.

| Sep 2019 - Sep 2021 | **Position: Data Scientist** 🌐 | **Ubiq** |

- Elaboration of spatial and temporal dynamic models for shared mobility demand-prediction.
- Experiences on building predictive models for car and moped fleets in cities like Berlin, Budapest, Viena, Dubai, Washington DC, between others.
- Large database pre-processing, engineering and preparation to the demand-prediction pipeline.
- Historic data analysis for reports and presentations with clients.
- Large datasets handling, management and information collection.
- Participation in hiring processes.
- **Main tech tools used**: R, SQL, FME, QGIS and Git.

| Sep 2015 - Dec 2016 | **Graduate Teaching Assistant** | University of Guelph |

- Item 1
- Item 2

| Dec 2013 - Apr 2015 | **Test Automation Engineer** | Synechron |

- Item 1
- Item 2

Research

| 2016 - 2021 | **PhD student** | ENGAGE group - UNIVIE |

Thesis: Landslide susceptibility mapping at national scale: first attempts for Austria. Scientific challenges within applicable solutions.

- Proposed a stepwise deterministic method to integrate datasets without labeled data. The method performs comparably with a method that incorporates a Support Vector Machine
- Prepared a longitudinal dataset to enable comprehensive analyses about WWI Canadian society and military, seeding further research
- **Tech tools**: R, ArcGIS, QGIS, LaTeX

Other interests

Summer ● Outdoor activities ● Snowboard ● Maps ● Houseplants