Pedro Henrique Muniz Lima

Data Analyst/Scientist

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My website - *under construction*

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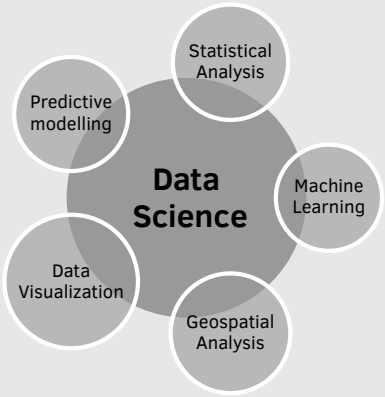
/in/pedrolima-ds/

Technical Skills

Overview



Programming

- Python
- SQL • LaTeX
- R • Git • Agile framework
- Geospatial analysis tools

Languages

- German
- English
- Portuguese

Education

PhD. in Phys. Geography (2016 - 22)
University of Vienna - UNIVIE

MsC. in Phys. Geography (2013 - 15)
UFRJ, Rio de Janeiro, BR

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, maintaining and optimizing 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 building demand-prediction algorithms.
- Responsible to deliver a ready-to-go model to the back end team for deployment.
- Elaboration of KPIs and other impact measurement assessments.
- Historic data analysis for reports and presentations with clients.
- Storytelling and data visualization.
- Large datasets handling, management and information collection.
- Participation in hiring processes.
- **Main tech tools used**: R, SQL, FME, QGIS and Git.

Research

2016 - 2021 **PhD** — **ENGAGE group - UNIVIE**

Thesis: *Landslide prediction mapping at varied scales.Methodological designs adaptations to better cope with common input data-related challenges.*

- Used multiple statistical and machine learning algorithms to spatially predict natural hazard phenomena (landslides) in varied study sites.
- Design methodological frameworks aiming to better cope with insufficient input datasets (e.g., bias, positional inaccuracy).
- Participation in varied number of scientific conferences, including presentation and debate of modelling outcomes.
- Production of varied research items.
- **Tech tools**: R, ArcGIS, QGIS, LaTeX

Other interests

Summer • Surf • Outdoor activities • Snowboard • Maps • Houseplants • coffee • Bike • Watersports