

Pedro Henrique Muniz Lima

Data Analyst/Scientist



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github.io/Pedrolima/



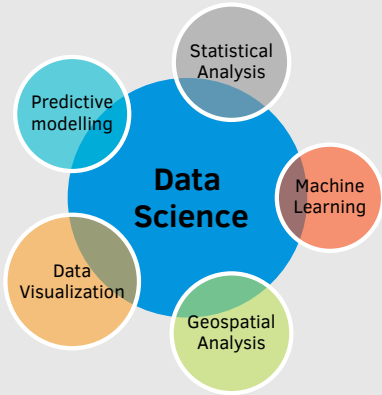
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/in/pedrolima-ds/

Technical Skills

Overview



Programming

Python

SQL • \LaTeX

R • Git • Agile framework

Geospatial analysis tools

Languages

German

English

Portuguese

Education

PhD., Geography

Topic: Statistical and ML methods for natural hazards spatial prediction

University of Vienna - UNIVIE

2016 - 2021 | Vienna, Austria

Professional and academic Experiences

Sep 2021 - now **Position: Researcher**

University of Vienna

- Elaboration of geospatial and temporal dynamic models for shared mobility demand prediction.
- 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 2019 - Sep 2021 **Position: Data Scientist**

Ubiquitous

- Elaboration of geospatial and temporal dynamic models for shared mobility demand prediction.
- 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

- TA for CIS*2430 (OOP), CIS*4150 (Software Reliability & Testing) and CIS*3530 (Database Systems & Concepts) courses
- Delivered several lectures for CIS*3530 when professor was away at a conference

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

Synechron

- Primarily developed test automation libraries using Java and C#, scripts and CI / CD pipelines
- Lead development of a Keyword Driven & Behavior Driven test framework for Microsoft Dynamics CRM. Earned monetary award & client appreciation.
- Demonstrated that rewriting an in-house test framework for Microsoft Dynamics AX, using an open source library (White) instead of a proprietary one (Coded UI), would help the team save \$4K annually by downgrading Microsoft Visual Studio

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

