

GUILHERME VIEGAS

DATA SCIENTIST | ENGINEER

INTRODUCTION

Experienced Data Professional with over 6 years in IT and data related roles, blending technical expertise with a strong background in economics and academic research. Skilled in extracting value from complex datasets, with proven experience in building scalable cloud solutions. Published author in time series and spatial econometrics, with research covering economic complexity, education, migration, and labor markets. Actively advancing toward senior roles in data engineering and analytics, with a passion for modeling socioeconomic phenomena.

Dual citizen (Brazilian & Portuguese/EU).

Explore my work at <<https://portfolio.guigo.dev.br>>.

MAIN SKILLS

- ETL and ELT
- Statistical Modelling
- Time Series Analysis
- Spatial Series Analysis
- Analytical Dashboards
- DataBase Management
- MLOps & DevOps
- CI/CD Pipelining
- SCRUM
- Data Science
- Data Engineering
- Cloud Computing
- Pipeline Development
- Software Architecture
- Economic Analysis
- AI Agent development
- Software Architecture
- Data Storytelling

ACADEMIC FORMATION

MASTER OF GEO-TECHNOLOGIES

University of Münster, WWU

- 'Geospatial Technologies' Masters Course in Münster, Germany;
- Masters of Science in Advanced Techniques and Applications of Spatial Data Analysis, Remote Sensing, and Geographic Information Systems (GIS) for Informed Decision-Making and Problem-Solving in various Fields;
- Merit-Based Fellowship in Thesis Module.

BACHELOR OF ECONOMICS

Federal University of Santa Catarina, UFSC

- 'Economic Sciences' Bachelor Course in Santa Catarina, Brazil;
- Final paper (TCC) on "Human Capital, Knowledge Spillover and Economic Complexity: An Econometric Analysis through Global and Local Methods of Microregions in Brazil".

ENGLISH FOR BUSINESS

NED Training Centre

- 'English for Business' Course in Dublin, Ireland;
- Lessons about How to Write E-Mails, Presentations, Reports and more, all using English as a Foreign Language.

CONTACT

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- Current Address: Münster, Deutschland

WORK EXPERIENCE

CLOUD DATA ENGINEER

CloudPilots - Köln, Germany

Set/2024 - Mar/2025

- Cloud Infrastructure using GCP and Terraform;
- IT Consultancy for Databases and Report Development;
- FinOps, Cloud Migration, ETL, and Reporting;
- GCP, Terraform, BQ, SQL, SQLX, DataForm, BigData, JS, Python;

DATA CONSULTANT

INETUM/NOESIS - Lisbon, Portugal

Oct/2022 - May/2024

- Cloud Infrastructure Development and Maintaining;
- Database Administration;
- Network Analysis and Spatial Data Visualization;
- Training of Interns;
- Azure, GCP, Terraform, Bash, Python, Postgres, PostGIS;

CENSUS AGENT

Brazilian Institute of Geography and Statistics

June/2022 - August/2022 (Temporary)

- Support Census Research in Assigned Areas/Regions;
- Reviewing Field Sites and Research Reports;
- Training of Census Agents to Conduct Interviews;

APPLIED DATA SCIENTIST

4intelligence Technology - São Paulo, SP

June/2021 - June/2022

- Data Cleaning and Transformation;
- Statistical and Machine Learning Modeling;
- Time Series Modeling;
- Development of Data Pipelines;
- Model Evaluation Over Time;
- Project Documentation;
- Python, R, Bash, Postgres, SQL, Azure, Excel;

JUNIOR DATA SCIENTIST

Aquarela Advanced Analytics

May/2019 - June/ 2021

- Data Cleaning and Transformations;
- Development of Analytical Dashboards;
- Statistical Modeling and Machine Learning;
- Deployment of Dashboards in Production;
- R, Python, Docker, JS, CSS, GCP, AWS;

PROFESSOR'S ASSISTANT

Federal University of Santa Catarina

February/2019 - June/ 2019

- Assistant of the Economical Statistics Discipline;
- Assisting Professor's Teaching Demands;
- Assisting Students with their Homework;
- Support the Usage of Statistical Programming Languages (Python, R).

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PROFICIENCY

Bash
PowerShell

Python
R
SQL

GCP
Azure
AWS
Terraform
OpenTofu
Ansible
Docker
Kubernetes

PostgreSQL
PostGIS
PGrouting
MongoDB
Snowflake

BigQuery
Synapse
RedShift
HDFS
PySpark
Beam
AirFlow
Kafka

Agent Builder
LangChain
LangGraph

Pandas
Scikit-learn
TensorFlow
PyCaret
Selenium

QGIS
JavaScript
HTML5
CSS3
Node.js
React.js
Flask
FastAPI
Django
Flutter
WordPress

Git
GitHub Actions
Jenkins
Azure DevOps
SCRUM

Raspberry Pi
FlipperZero
Arduino

GNU/Linux
Windows
MacOS

Portuguese - C2
English - C2
Spanish - C1
German - B2
French - A1
Mandarin - A1

PRESENTATION

I'm a data professional with over six years of experience, combining a solid foundation in economics and econometrics with strong technical expertise in data engineering, cloud computing, and analytical modeling. Originally from Brazil and also a Portuguese (EU) citizen, I hold a Bachelor's in Economics, where I found empirical evidence of spatial spillover of higher education knowledge on economic complexity, and a Master's in GeoSpatial Technologies, where I applied MultiScale Geographically Weighted Regression to study migration dynamics in Brazil. Professionally, I've contributed as a Junior Data Scientist at Aquarela, publishing insights from private sector projects, and later as an Applied Data Scientist at 4intelligence, where I built automated pipelines for time series forecasting. I also took part in Brazil's 2022 Demographic Census as a Census Agent for Administration and Informatics. More recently, I expanded my international experience by working in Portugal as an IT consultant and later as a Cloud Data Engineer at CloudPilots, in Germany, developing big data pipelines on GCP. With expertise in tools like Python, SQL, Bash, R, Docker, and Terraform, I'm now focused on advancing to a senior role where I can apply my skills to build impactful, scalable data solutions.

PUBLICATIONS AND PROJECTS (LINKS ATTACHED)

Personal Hub <www.guigo.dev.br><code>
A personal website and portfolio to centralize my projects, articles, and professional interests. Deployed on GCP with infrastructure as code and integrated cloud services. Key-words: Terraform, GCP, Docker, Bash, Python, BigQuery, SQL, SQLX, Dataform, Vertex AI, Agent Builder, Pub/Sub.

Migration Dynamics in Brazil: A Spatial Econometric Analysis <article>
Master's thesis for the Erasmus Mundus MSc in Geospatial Technologies, analyzing internal migration in Brazil through multiscale spatial econometrics. Tech: Terraform, GCP, Bash, BigQuery, Dataform, SQL, SQLX, JavaScript, R, Python, Docker, Vertex AI, Agent Builder.

Higher Education, Economic Complexity, and Knowledge Spillovers <article>
Article derived from my bachelor thesis. It explores spatial spillovers of higher education on economic complexity across Brazilian micro-regions using Geographically Weighted Regression. Key-words: R, QGIS, Spatial Econometrics.

Did industrial and export complexity drive regional economic growth in Brazil? <article>
Co-authored academic study using Brazil's exports and labor market data to compare the roles of export and industrial complexity in predicting regional growth. Key-words: R, Python, Econometric Modeling, Spatial Analysis.

Tom Riddle's Diary – Custom LLM Character Agent <code>
An interactive Streamlit app powered by Ollama Phi-3 to simulate the diary of Tom Riddle from Harry Potter. Demonstrates fine-tuning and persona control with LLMs. Key-words: Terraform, GCP, Bash, Docker, Python, Ollama, Streamlit, LLM.

Money Neutrality in the COVID-19 Era <article><code>
A Medium article visualizing the theoretical impact of post-COVID monetary expansion on inflation, illustrating classical monetary theory using an animated plot. After all, "inflation is always and everywhere a monetary phenomena". Key-words: R, ggplot2, gganimate.

How Much Is This Mansion Worth? <code>
A machine learning case study that scrapes real estate listings in Brasília, Brazil, to estimate luxury property prices using regression models. Key-words: Python, BeautifulSoup4, Selenium, Scikit-learn, Pandas, FastAPI, GCP.

GCP Billing Analytics <code>
Analyzes GCP billing export data with time series forecasting, cost optimization insights, and Gemini AI integration for cloud usage recommendations. Key-words: Terraform, GCP, BigQuery, Dataform, SQL, SQLX, JavaScript, Gemini AI.

CLOUD CERTIFICATIONS

GCP Certified: Cloud Engineer Associate Certification;
GCP Certified: Data Practitioner Associate Certification;
GCP Certified: Digital Cloud Leader Certification;
Microsoft Certified: Designing and Implementing a Data Science Solution on Azure (**DP-100**);
Microsoft Certified: Azure Data Fundamentals (**DP-900**);
Microsoft Certified: Azure Fundamentals (**AZ-900**);
Microsoft Certified: Azure AI Fundamentals (**AI-900**);
Microsoft Certified: Security, Compliance, and Identity Fundamentals (**SC-900**);
Microsoft Certified: Power Platform Fundamentals (**PL-900**);