

André Porto,

Data Scientist

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

Python developer with over 20 years' experience in graphic design, front-end development and user interface design, as well as experience in mobile development, typography and UI/UX. He has been a Volunteer iOS Developer at Greenstand since March 2024, contributing to the Treetracker open source project.

Skills

Data: Python, SQL, Jupyter Notebooks, Power BI, Data exploration, Data analysis, Data visualization.

Mobile: Swift, SwiftUI, UIKit, ViewCode, Firebase, Combine, API, CoreData, CocoaPods, MVVM, Git, GitFlow.

UI/UX | Design: Photoshop, Illustrator, CorelDraw, Pixelmator, Figma, FinalCut Pro, JavaScript, Wordpress.

Work Experience

Greenstand | Volunteer iOS Developer

Mar 2024 / Currently

Greenstand is a U.S.-based non-profit organization working to combat climate change and alleviate poverty through technology.

- Contributed to the Treetracker open-source project, a mobile and web application suite designed to track tree planting efforts and verify tree survival.
- Assisted in building a mobile app for iOS to complement the existing Android application.
- Utilized Git for version control and followed a Fork-Pull request workflow for code contributions.
- Collaborated with developers on Slack to identify tasks, discuss project progress, and troubleshoot technical hurdles.
- Engaged in an Agile development environment, making small, focused code commits for code review.

Projects

Airbnb Rio Project | Python, Jupyter Notebook, Data cleaning, Exploratory data analysis

Jan 2023

- Analyzed Airbnb rental data for Rio de Janeiro from April 2018 - May 2020 to build a price prediction model.
- Performed exploratory data analysis on factors like seasonality, location, amenities to determine key drivers of rental prices.
- Engineered features from text data columns using encoding techniques.
- Compared performance of regression models like linear, lasso, random forest, XGBoost.
- Tuned hyperparameters of best XGBoost model using randomized search CV.
- Achieved a model with MAE of R\$65 and R2 score of 0.834 on test data.
- Developed an end-to-end machine learning pipeline to operationalize model on new data.
- Built interactive Jupyter Notebook dashboard for model predictions to assist hosts price listings.

Automated Price Searching | Python, Jupyter Notebook, Selenium, Automation

Dez 2022

- Developed a Python program to automate price comparisons across multiple ecommerce sites, including Google Shopping and Buscapé.
- Utilized Selenium web automation framework to scrape product data and pricing from supplier websites.
- Implemented object-oriented programming techniques to structure the codebase into classes for improved organization and scalability.
- Designed the system to search for keywords, filter results, and extract key product details like title, price, rating, etc.
- Built in data validation checks to avoid invalid or erroneous entries, ensuring accuracy of scraped data.
- Stored extracted information in a spreadsheet for analysis and price benchmarking against specified min/max values.
- Automated sending of email notifications with list of products below defined maximum purchase price threshold.

- Demonstrated strong problem-solving skills to handle shifting page structures and implement resilient scraping logic.
- Gained experience with web automation, data extraction, and building automated workflows for business purposes.
- Developed programming abilities in Python, using libraries like Selenium, openpyxl, smtplib.
- Created a scalable framework to easily add new supplier sites by extending existing classes.

Reach out my [GitHub](#) and my [Portfolio](#) for more projects.

Education

Systems Analysis and Development | UniFatecie

Jan 2024 / Graduation In Dec 2025

Psychology | Unit - Universidade Tiradentes

Jan 2005 / Dec 2010

Graphic Design | Unit - Universidade Tiradentes

Aug 1998 / Jul 2003

Languages

Portuguese | Native

English | Professional working proficiency

Bootcamps & Certificates

- [Cisco - Ciência de Dados](#)
- [Swiftful Thinking](#)
- [100 Days of SwiftUI](#)
- [iOS & Swift Bootcamp](#)
- [Python Full Stack](#)
- [SQL Full Stack](#)
- [Power BI Full Stack](#)
- [Modern HTML5](#)
- [Modern CSS3](#)
- [SASS](#)
- [JavaScript I - Logic](#)
- [JavaScript II - DOM](#)
- [JavaScript III - Modern JS](#)
- [JavaScript IV - OOP](#)
- [JavaScript V - Advanced Topics](#)
- [Google: Data Everywhere](#)
- [Google: Driven Decisions](#)
- [Google: Data Exploration](#)
- [Google: Data Science](#)
- [Agile Development](#)
- [Scrum Fundamentals](#)
- [IoT Applications - Agile way](#)
- [Git/GitHub](#)