# WILMAR SEPULVEDA HERRERA

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in LinkedIn  ⦿ GitHub

## About Me

Statistician MSc, with over 5 years of experience developing end-to-end analytical solutions based on statistical models, machine learning algorithms, and artificial intelligence for the financial and insurance sectors. Passionate about MLOps, data engineering, teaching, and research. Throughout my career, I have made credit and insurance businesses more profitable and fostered a better data culture.

## Education

**Universidad del Valle**                                                  **August 2020 – December 2023**
*Master in Statistics, 4.7/5*

**Universidad del Valle**                                                  **January 2011 – December 2017**
*Statistician, 4/5*

## Work Experience

**R5**                                                                      **March 2022– Present**
*Leader of Advanced Analytics*                                              *Fintech*

- Lead a team of 4 data scientists, working on Machine Learning, Descriptive Analytics, and MLOps projects.
- Through Machine Learning and descriptive analytics, I improved the SOAT product by intelligently selecting the best risks, achieving a Loss Ratio of 70% vs. 120% of the market, translating into billions of pesos in profits for the company.
- Using unsupervised learning, we better understood our customers and thus improved collection efficiency.
- Using advanced analytics methodologies, we better selected our credit customers, thus reducing metrics like 30-ever and 60-ever.

**Alcaldía de Santiago de Cali**                                            **Nov 2023– Dec 2023**
*Senior Data Scientist*                                                     *Contractor*

- Implement Machine Learning models to predict fetal and non-fetal mortality.
- Build a dashboard to characterize infant mortality.

**Excelcredit**                                                            **May 2021– March 2022**
*Senior Data Scientist*                                                     *Fintech*

- Solve business problems through advanced analytics, such as: Provision calculation, prepayment estimation, customer duration, customer segmentation, LAFT risk.

**Banco de Occidente**                                                      **Sept 2020– May 2021**
*Data Scientist*                                                            *Traditional Banking*

- In charge of building machine learning models to optimize processes and generate value: Collection, portfolio normalization, damage to customer cash flow due to the Covid-19 situation.

**Universidad del Valle**                                                   **April 2019– Dec 2019**
*Data Analyst*                                                             *Planning Office*

- Construction of dashboards for the analysis of Saber-Pro tests, using ShinyApps.
- Construction of the 2018 statistical yearbook.
- Loading various university indicators into the SNIES.

## Teaching Experience

**Universidad Libre - Cali**                                    **Nov 2023– Dec 2023**
*Instructor*                                          *Machine Learning Diploma*

- Teach the course Statistics for Data Science.

**Universidad del Valle**                                        **Nov 2021– Feb 2022**
*Teaching Assistant*                                       *Faculty of Engineering*

- Teach the course of Probability and Statistics to Systems Engineering students.
- Teach the course of Fundamentals of Statistics to Agricultural Engineering students.

**Comfenalco - PEC**                                              **Feb 2019– Jan 2021**
*Instructor*                                                    *Technical Labor*

- Guide affiliates to the compensation fund belonging to the technical labor programs; administrative assistant and accounting assistant (mathematics, data processing, thesis work.)

## Tech Stack



## GitHub Projects

**Web Scraping MELI** | Performs web scraping of the list of all products published on Mercado Libre. Here I certify my knowledge in Web Scraping, Docker, CI/CD, Python.

**CAR ETL** | I carry out an ETL process where I extract vehicle data, process it with Python, and load it to AWS S3, using GitHub Actions.

**CAR PREDICT** | I build a machine learning model using different technologies: DVC, FastAPI, Docker, Python.

**CAR PREDICT APP** | Here I create a web application with Streamlit, which has its own database.

**ITSERIES** | An R package for analyzing irregularly spaced stochastic processes.

**Cluster-APP** | In this project, I create an app with Gradio and HuggingFace to classify credit card customers.