

WILMAR SEPULVEDA HERRERA

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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

Instructor

Nov 2023– Dec 2023

Machine Learning Diploma

- Teach the course Statistics for Data Science.

Universidad del Valle

Teaching Assistant

Nov 2021– Feb 2022

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

Instructor

Feb 2019– Jan 2021

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.