MIGUEL SOLER
DATA SCIENTIST

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PERFIL

Mechanical Engineer with a strong foundation in data science and artificial intelligence. Combines analytical and problem-solving skills with practical experience in data analysis, visualization, and predictive modeling. Proficient in transforming raw data into actionable insights to support data-driven decision making in technical and business contexts.

EXPERIENCIA

June 2025 — Personal Project

Built a predictive model to estimate apartment rental prices in Bogotá using web scraping from Finca Raíz. Performed data cleaning, exploratory analysis, geolocation processing, and feature engineering. Trained regression models like XGBoost and Random Forest, achieving an R^2 score of 0.89 after hyperparameter tuning with GridSearchCV.

PROJECTS

Apartment price rent forecast (Bogotá) — Portfolio
Model developed to predict the rental price of apartments in Bogotá based on their location and features.

Home Price Predictor — Portfolio
A data science project aimed at predicting home prices using supervised regression techniques.

Spam Message Detector — Portfolio
A data science project aimed at predicting spam messages using supervised regression techniques.

EDUCATION

Mechanical Engineer
Escuela Tecnológica Instituto Técnico Central
June 2018 – April 2024

Google Data Analytics
Coursera
March 2025

Google Advanced Data Analytics
Coursera
June 2025

SKILLS

Data Science
- Predictive modeling (regression, classification)
- Feature Engineering
- Model evaluation (MAE, RMSE, cross-val)
- Interpretability

Statistics and Mathematics
- Probability, statistical inference
- Linear and generalized regression
- Linear algebra, calculus, and optimization

Tools
- Python (pandas, Scikit-learn, Matplotlib)
- Tableau
- SQL
- Git, Jupyter, Google Colab

Data Management
- Web scraping
- Rest APIs
- Processing structured and semi-structured data

IDIOMAS

Spanish (Native) - English (B2 – Intermediate/Upper-Intermediate)