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Miguel Soler
Data Scientist

[**Portfolio**](#)
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SUMMARY STATEMENT

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 decisions.

TECHNICAL SKILLS

Languages Proficient: Python (Pandas, NumPy, Scikit-learn, Matplotlib), SQL (MySQL)
Tech Stack Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, REST API.
Data & Visualization: Tableau, Seaborn, Matplotlib, Data Cleaning.

PROJECTS

Apartment price rent forecast Bogotá
- 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.

Neural Network from Scratch
- General neural network development with some of the most important configurations to understand the basic concepts of neural networks functionality.

Convolutional Neural Network from Scratch
- Make a general convolutional neural network from scratch with some of the most important configurations. Implementing the convolutional layer, pooling layer, flatten layer and the dense layer to understand the **algorithm**.

EDUCATION

Mechanical Engineer   April 2024
Escuela Tecnologica Instituto Tecnico Central

Google Data Analytics, *Coursera*   May 2025
Professional certificate covering data cleaning, analysis, visualization and SQL.

Google Advance Data Analytics, *Coursera*   July 2025
Advance training in statistics, machine learning, predictive modeling, and data-driven decision making