

ALEJANDRO VARGAS

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🌐 sagravela.github.io 💬 sagravela 🐾 github.com/sagravela 🏁 kaggle.com/sagravela

📍 San Juan, Argentina · Dual citizen (Argentina/Spain) · Open to relocation

Profile

Passionate about data, focused on extracting meaningful insights and bringing clarity to complex problems. Experienced in data collection, preparation, analysis, visualization, and modeling using leading Python and R libraries. Quick learner with a strong aptitude for problem-solving, eager to contribute to a dynamic and collaborative environment.

Projects / Experience

E-commerce Recommendation Engine

Jun 2025 – Aug 2025

TensorFlow · Pandas · MySQL · Numpy · Optuna · FastAPI · Apache Airflow · Gradio · Docker

End-to-end implementation of a deep learning-based recommendation system with TensorFlow Recommenders, achieving **55% accuracy** in predicting correct products within top-50 recommendations.

Demo: huggingface.co/spaces/sagravela/ecommerce-recommendation-system

Repo: github.com/sagravela/recommendation-system

Sales Time Series Forecasting

May 2025 – Jun 2025

R · Tidyverse · Fable · Feasts · Fabletools · Quarto · Shiny

Forecasted **+3,500 time series** for multiple products and stores using ARIMA and STL+ETS predictive models, integrated into an interactive Shiny dashboard for real-time decision-making.

Demo: sagravela.shinyapps.io/salesforecastr

Repo: github.com/sagravela/salesforecastr

AltScore Kaggle Competition

Mar 2025

Polars · GeoPandas · Scikit-learn · XGBoost · LightGBM · CatBoost · SHAP

Performed data collection, cleaning, feature engineering and trained ensemble tree-based models explained with SHAP. Ranked **Top-5 on public leaderboard**.

Competition: kaggle.com/competitions/alt-score-data-science-competition

Repo: github.com/sagravela/altscore-kaggle-competition

Education

Bachelor's degree in Geophysics

2016 – 2023

Overall Score: 8.68 / 10.0

FCEFNU, UNSJ

Relevant courses: Linear Algebra, Statistics, Calculus 1–3, Programming, GIS Tools, Geospatial Data Analysis

Tech Stack

- **Programming & Markup Languages:** Python, R, SQL, HTML, CSS, LaTeX
- **Machine Learning Frameworks:** TensorFlow, PyTorch, Keras, scikit-learn
- **Data Analysis:** Pandas, Polars, Numpy, PySpark, MS Excel
- **Data Visualization:** Matplotlib, Seaborn, Plotly, Streamlit, Quarto, Tableau, Power BI
- **Other:** Git, Docker, Scrapy, Selenium, BeautifulSoup, Apache Airflow, Azure, LangChain, LangGraph

Certifications

- Microsoft Azure Data Scientist Associate
- Career Essentials in Data Analysis by Microsoft and LinkedIn
- CS50 Introduction to Artificial Intelligence with Python
- English – CEFR B2 (Linguaskill, Cambridge)