ALEJANDRO VARGAS

DATA SCIENCE

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in sagravela

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Profile

Data enthusiast passionate about leveraging data to drive innovative and impactful business solutions. 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

Python TensorFlow pandas MySQL numpy seaborn plotly Optuna

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 tsibble purrr Shiny

Forecasted 3,500+ time series for multiple products and stores using ARIMA and STL+ETS, 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 XGBoost LightGBM CatBoost SHAP

Performed data collection, cleaning, and feature engineering; trained ensemble tree-based models with SHAP explanations. 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

FCEFN, UNSJ

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

Tech Stack

• Programming Languages: Python, R, SQL, HTML, CSS, LaTex

- Machine Learning Frameworks: TensorFlow, PyTorch, Keras, scikit-learn
- Data Analysis: Pandas, Polars, Numpy, PySpark, MS Ex-
- Data Visualization: Seaborn, Plotly, Shiny, Streamlit, Tableau, Power BI
- Utils: Git, Docker, Scrapy, Selenium, BeautifulSoup, Apache Airflow

Soft Skills

- Problem Solving
- Communication
- Team Collaboration
- Adaptability
- Time Management