ALEJANDRO VARGAS

DATA SCIENCE

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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 · 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   *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 Excel
- **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