# Alejandro Vargas

Web: <u>sagravela.github.io</u> · +54 9 264 585-3864 · alejandrovargasauger@gmail.com · San Juan, Argentina Linkedin: <u>linkedin.com/in/sagravela</u> · GitHub: <u>github.com/sagravela</u> · Kaggle: <u>kaggle.com/sagravela</u>

#### **DATA SCIENCE**

My background as a Geophysicist has given me a deep appreciation for working with complex, vast datasets —from raw data collection to advanced modeling. Now, I'm channeling that expertise into the dynamic world of Data Science and Al. I'm passionate about uncovering hidden patterns and transforming data into actionable insights. Whether it's building efficient data pipelines or training Al models, I love taking on challenges that turn complexity into clarity. Solving real-world problems using cutting-edge technology is what drives me every day.

#### **PORTFOLIO**

## **E-commerce Recommendation Engine**

### Python · TensorFlow · pandas · numpy · matplotlib · seaborn · plotly · TensorBoard · Optuna

This project demonstrates the end-to-end implementation of a deep learning-based recommendation system using TensorFlow Recommenders (TFRS). It leverages a dataset of user interaction data sourced from an ecommerce platform and applies advanced deep learning techniques to model user preferences. This approach enhances the shopping experience by providing highly relevant product suggestions tailored to individual users, making the recommendation system both accurate and scalable.

Demo: <a href="https://demo\_recommendation\_engine">https://demo\_recommendation\_engine</a> <a href="https://demo\_recommendation\_engine-tfrs">Run in Kaggle: kaggle.com/code/sagravela/recommendation-engine-tfrs</a> <a href="https://demo\_recommendation\_engine">Repository: github.com/sagravela/recommendation\_engine</a>

#### Sales Time Series Forecasting

# R · tidyverse · fable · tsibble · purrr · shiny

This repository offers a comprehensive, user-friendly toolkit for sales forecasting using R. From raw data to an interactive dashboard, this project streamlines the entire process of forecasting sales, helping businesses make data-driven decisions about inventory, staffing, and marketing.

Demo: sagravela.shinyapps.io/sales-forecast-dashboard
Repository: github.com/sagravela/sales\_time\_series\_forecast

#### **Jobs Hunting App**

# $\textbf{Python} \cdot \textbf{Web Scraping} \cdot \textbf{Scrapy} \cdot \textbf{SQLAlchemy} \cdot \textbf{Streamlit}$

Looking for your next job shouldn't feel like a full-time job. This app automates the search process by scraping listings from top job sites, storing them in a database, and presenting them in a user-friendly interface. Say goodbye to duplicated applications and focus on the best opportunities!

Repository: github.com/sagravela/jobs\_hunting

# **EDUCATION & INTERNSHIPS**

# **Bachelor's degree of Geophysics**

UNSJ - Argentina · GPA: 8.68/10 · 2016-2023

#### **IAESTE Practical Training**

IAESTE Scholar · UNICAMP - Brazil · 2022 (2 months)

# Noise Properties in the GPS/GNSS Time Series of San Juan Permanent Stations

CICITCA Scholar · UNSJ - Argentina · 2021-2022 (1 year)

Geophysical Characterization of the Crust in the Region of Major Unconventional Hydrocarbon Exploration in Argentina

CIN Scholar · UNSJ - Argentina · 2020-2021 (1 year)

# **ADDITIONAL TECH STACK**

- PyTorch
- LangChain
- scikit-learn
- Docker
- AzureSQL
- SeleniumScrapy
- JavaScript
- StrapyStreamlit
- HTML/CSS
- Linux/Bash

# **SKILLS**

- Adaptability
- Teamwork
- Problem-solving
- Attention to detail