Armando Saavedra

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Biography

Experienced Data Analyst with a robust background in leveraging SQL for efficient data extraction. Proficient in using R and Python for cleaning and preparing data. Skilled in applying advanced statistical and predictive models, including survival analysis, Poisson regression, neural networks, and various machine learning techniques. Adept at translating complex data into actionable insights to drive informed decisions.

Work Experience

Health Science Specialist, Veteran Affairs VHA,   Oct 2022 – Current
Decatur, GA.

- Extract EHR for medical research from data warehouse CDW using SQL Server.
- Clean and transform medical data using R and SQL.
- Implement Statistical methods like survival analysis, poison regression.
- Report findings to medical community.

Advanced Research Analyst, Pima Community College.   Dec 2019 – Dec 2021
Tucson, AZ.

- Machine learning implementation to predict academic behavior.
- Prepare reports about institutional performance.
- Pull records from SAP BusinessObjects and/or SQL Developer
- Spatial data analysis using GIS in R and Python.
- Dashboard implementation with Power BI and R.

Junior Economist FEDEGAN   Aug 2011 – Jan 2013
Bogota, Colombia

- Use time series analysis such SARIMA and/or Auto-regressive vectors to predict monthly price in male cattle premiums.
- Integrate different agricultural data sources.
- Create monthly report about dairy and beef global consumption trends.
- Assist with a project for transferring production knowledge to different Colombian cattle ranchers.

Education

University of Arizona, MS in Information Science   Jan 2018 – May 2020
- **Coursework:** Data Mining, Machine Learning, Database Management.

Catholic University of Colombia, BS in Economics   Jan 2008 – Dec 2012
- **Coursework:** Econometrics, Time Series Analysis, Statistics, Operation Research.

Sample Projects

Aortic Stenosis Project   Veteran Affairs VHA

- I was responsible of extracting a massive amount of data (7.9 Million patients) from the VA data warehouse (CDW). I pulled patients diagnosed with Aortic Stenosis condition, different comorbidities, vitals and labs related to the main study cohort. A statistical analysis was implemented to estimate hazard ratios.

Training Session   Pima Community College

- Led a training session on binary classification using Logistic Regression and Deep Learning models. Demonstrated feature engineering and model evaluation. Highlighted performance differences between traditional and advanced ML approaches..

Skills

Python, RStudio, SQL, Power BI,Project Management,Machine Learning, Statistical Analysis, Clinical Research