




Maximilliano Alvarado

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Education

BS Mathematics in Data Science, Computer Science Minor 2023 - University of Houston

Work Experience

Data Analyst - Group 1 Automotive (*June 2023 - Present*)

- **Extract, clean, transform, and analyze data** across various departments using **Qlik** business analytics platform, focusing on identifying trends and optimizing operations.
- Developed **data visualization and storytelling** reports to effectively communicate insights to stakeholders, company executives, and senior management across various departments.
- Contributed to the **full development** of approximately **35%** of all existing Qlik reports, **upgraded** around **85%**, and **optimized** around **55%** for improved performance and efficiency.
- Recipient of the **Quarterly Productivity Award five consecutive times**, recognized for **outstanding productivity and dedication**.

Hollander Specialist - America Auto and Truck Salvage (*May 2019 - May 2023*)

- Experienced in working with a comprehensive **inventory management software** that helps navigate through a **database** that matches car parts to interchange lines and other local businesses.
- **Managed data** with hundreds of car parts, developed inventory **data analysis reports with Excel**, developed barcodes, and provided customer service.

Projects

Used Car **Price Predictor Model**

- Built a robust **machine learning pipeline** for predicting used car prices, incorporating advanced **data preprocessing**, including imputation of missing values, encoding categorical features, and feature scaling.
- Optimized the model selection process by testing various algorithms (Linear Regression, Decision Tree, Random Forest) and **fine-tuning** the best-performing model with **hyperparameter optimization**, leveraging **cross-validation** and multiple **evaluation metrics** for comprehensive model assessment.

www.AldineAmerica.com

- **Developed & deployed** a full-stack website using Angular, MSSQL, ASP.NET Web API, and Plesk Control Panel for a small business.
- Included **database system features** like User Authorization, Data Entry Forms, Data Modification, Data Filter/Search, and more.

Analysis Report of Gun Violence in America Using **Machine Learning**

- **Collaborated with a team** modeling a dataset of 638,454 homicide report cases with 24 variables to analyze with machine learning methods and predict if a victim was killed by a gun.
- Focused on using **supervised learning methods** with RStudio like Logistic Regression, Decision Tree, Random Forest to train and validate data.

Technical Skills

- Languages: SQL, Python (**Pandas**, **NumPy**, **Scikit-learn**), R, C++ / C#, HTML / CSS, Java, Typescript, MATLAB
- Tech Stack: **Qlik**, PowerBI, Tableau, ASP.NET, Angular, Bootstrap, Microsoft Office Suite, Git

Certificates

- IBM: **Data Science Professional**

Relevant Coursework

- Data Science & Machine Learning, Data Science & Stats, Database Management Systems, Differential Equations, Data Structures & Algorithms, Programming & Data Structures, Software Design

Foreign Language Skills

- **Fluent** in both English & Spanish (Native Speaker)