


Adam Gomez

Data Scientist

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My experience as a small business executive and sales professional provided me the opportunity to develop excellent analytical and communication skills as I built a record of consistent performance managing projects from concept to execution. I now use this practiced skill set to identify, evaluate and present data driven and actionable solutions to complex data science problems.

TECHNICAL SKILLS

SQL Excel Python NumPy pandas
Seaborn Matplotlib Tableau sklearn scipy
statsmodels NLP Spark requests json

PROJECTS

Credit Risk Management Predictor 1/2021

Developing classification and regression models to evaluate the creditworthiness of applicants for credit cards at a Chinese financial institution. Labels designating individual account performance and subsequent credit risk rating are being created using vintage analysis of existing customer credit records. A classification model is being designed to predict these labels to estimate the creditworthiness of new applicants with no preexisting credit record.

Finding Fake News 12/2020

Created novel dataset from Reddit's API using python requests and json libraries. Developed classification model to distinguish fake news headlines originating from r/TheOnion from r/NotTheOnion. Implemented resampling techniques to manage class imbalance, including synthetic minority oversampling technique. Best performing model, as determined by f1-score, utilized bag-of-words vectorization with random oversampling of the minority class.

NLP 404 Not Found 11/2020

Developed classification model predicting the programming language of GitHub repositories based on their readme contents. Utilized requests library to scrape contents of more than one thousand web pages using GitHub's developer API. Top performing model designed using Term Frequency - Inverse Document Frequency vectorization and K-Nearest Neighbors algorithm.

Curriculum Access Anomaly Detection 11/2020

Time series analysis performed on website access logs to identify trends in user usage of Codeup curriculum pages. Continuous probabalistic methods utilized on resampled periods to identify IP addresses with anomalous usage patterns. Web-scraping bots were identified and relevant IP addresses submitted for executive review.

Random Walks of Stock Indices 11/2020

Explored the pricing of the S&P 500, DAX 30, FTSE 100, and NIKKEI 225 stock indices. Seasonal decomposition and partial autocorrelation function plots of white noise and random walk data were compared to S&P 500. Autoregressive models of varying lag periods were compared using log likelihood ratio test to identify ideal lag for top performing price prediction model.

Predicting Log Error for Zillow's Zestimate 10/2020

K-Means clustering algorithms used to identify unique combinations of features to use as categorical variables in a linear regression model predicting the log error of Zillow's Zestimate. Extensive outliers managed through squeezing techniques.

Telcom Churn Analysis 9/2020

Identified drivers of churn at a telecommunication company and compared decision tree, random forest, k-nearest neighbors, and logistic regression models to classify existing and historic customers. Developed marketing and product recommendations that were compatible with overall corporate strategy.

EMPLOYMENT

Nerd Power 7/2019 - 4/2020 Field Advisor

Provided in-home presentations for residential solar power projects. Self-generated clients through door-to-door prospecting, referrals, and community event participation. Designed solar arrays to maximize power generation at minimal cost using predictive weather models and geographic positioning. Responded to company provided leads in the greater San Antonio area and closed new business. Negotiated pricing and product specifications to meet customer goals within strict budgetary limits and code requirements enforced by the city of San Antonio.

Reassurance Real Estate 1/2018 - 3/2019 Partner and CEO

Incorporated real estate investment firm with partner. Developed and implemented internet based marketing plan focused on paid search advertisements to capture motivated sellers of residential properties. Designed website to funnel leads into customer relationship management software. Evaluated and predicted property values using data driven models utilizing public records and data from the local multiple listing service. Pitched investment recommendations to financing partners.

Guardian Pool Fence 1/2014 - 7/2019 Sales and Installation Manager

Marketed company product and services to achieve sales goals. Managed installation teams and designed and installed residential safety products according to customer specifications. Developed process improvements in sales pipeline and installation procedures that increased company closing rate by 20% and reduced average installation time by 25%. Prepared and maintained balance sheet, income statement, profit and loss statement, and other relevant accounting records.

EDUCATION

Codeup 7/2020 - 1/2021 Data Science, Certificate of Completion

Fully-immersive, project-based 22-week Data Science career accelerator that provides students with 670+ hours of expert instruction in applied data science. Students develop expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and become comfortable working real, messy data to deliver actionable insights to diverse stakeholders. Codeup's programs are approved and audited by the Texas Workforce Commission as well as the US Department of Veteran Affairs.

Long School of Medicine 7/2013 - 9/2017 Candidate for Doctor of Medicine

Extensive program covering medically related biology, physiology, pathology, biostatistics, epidemiology and anatomy with simulated and non-simulated clinical experiences. Reviewed most common treatment methodologies and their effectiveness in achieving high quality evidence-based care in real-world conditions. Evaluated the advantages and economics of various delivery models in the U.S. healthcare system. Withdrew in excellent standing due to financial issue.

St. Mary's University 8/2002 - 5/2006 B.A. Psychology, Cum Laude

Honors Program graduate with thesis in industrial-organizational psychology. Coursework included principles of experimental design and multivariate statistics utilizing SPSS.