

CAITLYN CARNEY

DATA SCIENTIST

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ABOUT ME

I'm an experienced data analyst with strong organizational and problem-solving skills that are field-tested and proven to produce quantifiable results using key business metrics. My desire to contribute to my community and better the lives of others through data-driven insights and recommendations drove me to expand my skills and pivot into data science.

SKILLS

- SQL
- Tableau
- Python
 - Pandas
 - Numpy
 - Matplotlib
 - Seaborn
 - Skikit Learn
- Applied Statistics
- Spark
- Jupyter
- Machine Learning
- Presentation Creation
- Presenting
- Data Storytelling
- Data Analysis
- Spreadsheets
- Organization
- Natural Language Processing

EDUCATION

2018 - 2020

San Antonio College

Associates of Science

Associates of Art

2020 - 2021

Codeup

Data Science -

Fully-immersive, project-based career accelerator focused on the full data science pipeline while working with real, messy data to deliver actionable insights to diverse stakeholders.

EXPERIENCE

Marriott International 11/2015 - 03/2019
Data Specialist/Analyst 02/2017 - 03/2019

Created a new form of data-based training called *E3 Studio to minimize unnecessary associate transfers which resulted in a 2.1% drop and prevented >3,000 calls from being unnecessarily transferred. Site level transfers improved by 10.6% and annual site level results for transfers improved by 52%, going from 9% at its highest point to 5.9% between October and December 2017.

**E3 Studio was recognized at a corporate level and implemented to all Marriott call centers worldwide, due to the success of the project.*

PROJECTS

DEVELOPMENTAL

3-1-1 Response Delays - Capstone 05/2021-06/2021

Using data acquired from the City of San Antonio my team and I aimed to create a classification model to predict the level of delay in a 311 calls response time. We took in features such as council district code, zip code, department issued the case, category of the case, how the case was reported, and more to achieve this. From this project we answered what drives the level of delay and recommended ways to minimize late response for 3-1-1 calls in our city.

Predicting Coding Languages 05/2021

I used GitHub's API and python's BeautifulSoup to acquire the verbiage from README files and Natural Language Processing Techniques to prepare my text data for exploration and create a model to predict the repo language based on my text-based features. After exploring words, word combination, and their repetition I created a variety of models; finding that the SGD classifier model out performed all the others. This model beat my baseline accuracy of 39.5% by 14.3%, with an overall accuracy of 43.8%.

PERSONAL

Predicting Video Game Success 04/2021

I used a video game sales dataset, narrowing my subset to games which have sold 100,000 copies or more, to discover drivers for the success of a game. In my exploratory analysis, I used chi-square testing to identify features that might be drivers and found three that aided my Ridge Classifier model in predicting successful games. These drivers consisted of the games primary genre, release year, and primary gaming platform.