

Skills

Python	Pandas Numpy Psycopg2 Matplotlib Scikit-learn StatsModels REST-APIs Jupyter PyTest
SQL	PostgreSQL Redshift MySQL Oracle-PL/SQL Google Big Query ETL (Extract-Transform-Load)
R	Machine Learning Data Visualization ggplot2 dplyr prophet plotly caret partykit survival
Other	Git Unix Shell Cron AWS SAS SPSS Matlab HTML/CSS Javascript Tableau/Dashboard

Experience

Data Scientist | Republic Wireless Jan 2019 – Jun 2019

- Developed a cloud-based application on AWS using mobile event data to identify and proactively contact users with non-optimal experiences. Reduced churn for ~60% of affected users
- Automated the ad creation, analysis, and budgeting process of paid media marketing to test and refine advertising with Facebook and Google marketing APIs. Increased KPI's by an average of 3x
- Built a graphical multi-armed bandit test dashboard to quickly rank ad performance across hundreds of ads
- Saved more than \$15k/month in wasted marketing spend, increased sales, and reduced churn

Senior Data Analyst | Republic Wireless Oct 2017 – Jan 2019

- ETL'd US Census and Voter File data into an AWS Redshift database to build demographic cluster profiles of our customer base in R (partykit, caret, choroplethr) to influence marketing audiences and ad messaging
- Forecasted customer churn rates and survival curves in R (prophet) using various regressors/seasonality to quickly determine the impact and cost-effectiveness of promotional pricing and marketing channel differences
- Created a linear-optimization solver to optimize the shipping schedule of a major product launch. Balanced expected load between support and supply while keeping shipping arrival dates to a minimum
- Maintained two analytics blogs where findings were summarized and distributed company-wide

Research Analyst | Pasadena City College Oct 2015 – Sep 2017

- Designed a predictive model using CHAID decision trees and K-means clustering to forecast enrollment and consequently predicted future revenue within a 1% MOE
- Developed surveys for up to 30,000 participants at once
- Conducted an award-winning cost-effectiveness study using propensity score matching that has influenced first-year college curriculum design nationwide

Credit Analyst | 20th Century Fox May 2015 – Aug 2015

- Wrote shell scripts to automate data processing and increased overall dept. speed by 30%

Education

M.S., Analytics (Expected 2020) Georgia Institute of Technology

B.S., Financial Mathematics and Statistics University of California, Santa Barbara

- Regression Analysis, Significance Testing, Stochastic Processes, Numerical Analysis