

ALEXIS CASAS

Business Analyst

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EDUCATION

BS in Physics, Minor in Physics Engineering

University of San Francisco

📅 2016 – 2020

📍 San Francisco, CA

Minor in Business Analytics

University of San Francisco

📅 2016 – 2020

📍 San Francisco, CA

WORK EXPERIENCE

Business Analytics Research Assistant

Business Department, University of San Francisco

📅 Aug 2019 – May 2020

📍 San Francisco, CA

- Created visually appealing business Power Points for academic lectures.
- Read a variety of machine learning papers and communicated key points in an understandable manner.
- Read and analyzed public transit data as a Python data frame.
- Worked with google APIs and generated transit models in Python and R.
- Assisted in drafting papers for publication via LaTeX.

Physics and Astronomy Assistant and Tutor

Department of Physics, University of San Francisco

📅 Jan 2019 – May 2020

📍 San Francisco, CA

- Guided weekly tutoring sessions for Methods of Mathematical Physics and Introduction to Physics.
- Transformed students' understanding of material.
- Developed and enhanced students' analytical techniques.
- Analyzed and reviewed department lecture material, homework solutions and exams before released to students.

RELEVANT COURSES

- Quantitative Business Analysis
- Data Visualization
- Business Statistics
- Advanced Business Analytics: R
- Computational Physics
- Analytical Mechanics
- Calculus I, II, III
- Macro and Micro Economics
- Financial Accounting
- Quantum Mechanics

HONORS & AWARDS

- 2019-2020 Sigma Pi Sigma
- 2018-2020 Clare Boothe Luce Scholar
- 2019-2020 Women in Physics, Communications Chair

PROJECTS

Coffee and Tea production across the US

- Created and presented Tableau dashboards which identify key areas for business improvement. Some visualizations include: Pareto Graphs, Waterfall Charts, and Animated Time Series.

Improving Bzxt Podtaxi Operations

- Applied K-Means Clustering, unsupervised learning algorithm to identify different boroughs within Stockholm, Sweden and optimize Podtaxi use.

Social Network Ads

- Applied K-NN, SVM, and Logistic Regression to determine the likeliness an individual would interact with an Ad with high accuracy.

App Popularity: Google vs Apple

- Analyzed app data in python and made projections on which app profiles could be profitable in which market.

Restaurant Reviews

- Used Sentiment Analysis to create a word cloud of common phrases left for reviews and predicted the likeliness of receiving a recommendation from each user.

CERTIFICATES

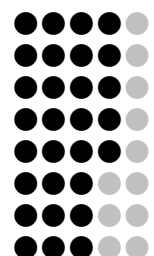
Dataquest: SQL Fundamentals

Dataquest: APIs and Webscraping

Dataquest: Python for Data Science

PROGRAMMING SKILLS

Python
Numpy, Scipy, Pandas
Jupyter Notebook
R
Tableau
LaTeX & Markdown
HTML
SQL



TECHNICAL SKILLS

- Problem Solving
- Machine Learning
- Regression
- Classification
- Computational Physics
- Time Series
- Linear Algebra
- Data Cleansing
- Differential Equations
- Web Scraping