

# ALAN FLINT

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## EDUCATION

### University of San Francisco

San Francisco, CA

*Master of Science in Data Science*

*June 2020*

- Deep Learning Certificate
- Relevant Coursework: Machine Learning, A/B Testing, Product Analytics, Deep Learning, Distributed Computing (Spark), Data Structures & Algorithms, Time Series, Data Visualization (ggplot & plotly), Data Ethics, Python, SQL, pandas, PyTorch

### University of Maryland

College Park, MD

*Bachelor of Science in Mathematics and Economics*

*May 2019*

- Honors College Citation
- Relevant Coursework: Statistics & Probability, Linear Algebra, Numerical Analysis, Econometrics, R

## WORK EXPERIENCE

### Trulia

San Francisco, CA

*Data Science Intern*

*November 2019 - Present*

- Built an internal power analysis tool in Python using Streamlit that calculates how long to run an A/B test for various in-house KPI's, providing key stakeholders a resource to efficiently and accurately run experiments
- Currently working on a machine learning propensity model to understand which user characteristics and website features are predictive in converting users to potential home buyers; using resampling techniques to alleviate the extreme class imbalance problem
- Deployed an ETL on AWS to automatically query for key business metrics and validate data sources using Presto and MySQL, saving hours of manual querying time

## PROJECTS

### Predicted Short Term Outcomes for Critically Ill Patients

*In-Class Kaggle Competition*

*January 2020 - February 2020*

- Predicted patients' heart rate and mean arterial pressure using categorical and time series data for each patient; increased model performance with a stacked ensemble of tree based models
- Finished 4th out of 42 pairs of other data science students in my program

### Machine Learning Algorithms

*Class Projects, University of San Francisco*

*October 2019 - February 2020*

- Coded my own implementations of Random Forest, Decision Trees, Naïve Bayes, k-means, and Regularized Regression algorithms from scratch in Python
- Compressed grayscale and color images using k-means++ by clustering the RGB values and re-assigning each pixel to the value of its centroid

### Classified Damage to Buildings Hit by the Nepal Earthquake

*Machine Learning Competition, drivendata.org*

*October - December 2019*

- Modeled the level of damage to buildings with Random Forest by engineering features from geographic and building structure variables
- Currently placed top 4% in the competition among 2300 participants

## SKILLS AND TECHNOLOGIES

- Python, SQL, Spark, scikit-learn, NumPy, pandas, PyTorch, AWS, git, R, ggplot2, matplotlib