Daniel Loman

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Education

M.S. Analytics, University of San Francisco July 2015
San Francisco, CA

Coursework: Machine Learning, Advanced Machine Learning, Data Acquisition, Linear Regression, Time Series Analysis, Linear Algebra, Probability and Statistics, Relational Databases (SQL), Data Visualization, Distributed Computing, Multivariate Statistics

Certifications: Base SAS

B.S. Physics, Siena College May 2014
Minors in Mathematics and Computational Science
Loudonville, NY

Projects

Using Semantics for Sentiment Analysis

- Classified 25,000 movie reviews as positive or negative using sentiment analysis with an Area under the ROC curve score of .96; Team is placed in top 10% of Kaggle competion
- Used Bag of Words and Word2Vec models with TF-IDF implementation for feature engineering, and logistic regression and random forest models in sklearn for machine learning

Predicting the 2015 NCAA Tournament

- Created a model which predicts the win percentage of every potential matchup in the NCAA Tournament and forecasts the probability of every team advancing to each round with Monte Carlo simulation
- Used mySQL, Python and Pandas to preprocess data, BeautifulSoup to scrape additional data and sklearn to construct bagged logistic regression model

Experience

Data Science Intern April 2015 - present
Voodoo Sports
San Francisco, CA

- Analyzed MLB game and player projections to identify ways to improve their model simulations.
- Applied regression and machine learning techniques to model MLB game and player statistics using data from the 2013-2015 seasons.

Data Science Intern October 2014 - April 2015
Flyr, Inc.
San Francisco, CA

- Analyzed and manipulated large datasets pulled from Flyr's RedShift database
- Validated company's current price prediction methods by creating and backtesting airfare price prediction algorithms with random forest models in Python and Pandas
- Predicted airfare booking classes 1-7 days ahead with over 80% accuracy using historical probability distributions and a Markov chain