PAOLO D. SECCI

https://paolosecci.herokuapp.com/

Languages

English, Spanish, Italian

Python, C++, Java, Javascript, HTML, SQL, Swift, R, MIPS Assembly, C, nesC, Visual Basic, CSS, php

Programs / Libraries

AWS, Spark, mySQL, Tableau, Keras, Pandas, Flask, D3, Linux, Excel, Bootstrap, MRjob, MongoDB, BeautifulSoup, Scikit-Learn, Matplotlib, Anaconda, Leaflet, Plotly, ORM, VaderSentiment, Splinter, Mapbox, Jupyter

Summary

By employing distributed computational clouds to engineer scalable data analysis systems, I can build predictive machine learning models and formulate concretely supported conclusions by analyzing trends in training data. In addition, I have developed expertise in data visualization to translate these scientific results into visual charts, animations, and GUIs to communicate these useful conclusions with my non-analyst colleagues.

Education

University of Southern California..... 2018
Viterbi School of Engineering
Data Analytics Certificate

University of California Merced..... 2016–7
School of Engineering
Computer Science & Engineering

Loyola High School..... 2012–6

Projects

Artificial Intelligence / Web Development

My website "Le $wish Prophet" is a predictive, machine learning model designed to simulate games and matchups in the National Basketball Association (NBA). The model draws statistically supported conclusions by application of a self-engineered algorithm. For example, points, assists, and rebounds are estimated for each player based on a algorithmic mix of previous game performances and importances. Also, a score is predicted for each game based on positional match-ups and a series of estimated weighted moving averages on points, opponent points, points allowed, and opponent points allowed. This algorithm can be applied to most other data sets to predict future outcomes based on collected records.

API Network Architecture / Statistical Analysis

To test the null hypothesis that Scores by the LA Department of Health and Yelp reviews are correlated, my USC Viterbi Data Analytics team used a series of Yelp API requests to acquire data for over 52,000 restaurants throughout the Los Angeles area. By merging the Yelp data set with the LA Department of Health's CSVs using a pandas dataframes, we were able to visualize the correlation between health scores and yelp reviews using a scatter plot with a line of best fit. By applying a chi-squared linear regression test, I failed to reject the null hypothesis with a p-value of 5%, a critical value of 29,832, a chi-squared value of 5,204, and 29,432 degrees of freedom. Thus concluding there does not exist a statistical correlation between the two variables.

Professional Work

Actor, Osbrink Talent Agency 2006–P
Brands Represented: Motorola, Mattel, Gap, Target, Dodge, Takis, Zuru, Chrysler, CDW, Asics, FILA, Land's End, Sport Chalet, Powerade, Sports Authority, Crayola, Kraft, Donna Karan, etc.

Lifeguard, Loyola Marymount University 2018
Red Cross Lifeguarding & CPR Certificate

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