Predicting the winner of the 2018 FIFA World Cup

https://www.kaggle.com/abecklas/fifa-world-cup

**Aim**: to predict the outcome of the FIFA World Cup 2018.

**Method**:

* Use data from Kaggle to model the outcome of certain pairings between teams, given their rank, points, and the weighted point difference with the opponent.
* Use this model to predict the outcome of matches in the single-elimination phase
* Sample from a binomial distribution with the prediction as the parameter. Since in the single elimination phase only two outcome is possible for a match the Bernoulli distribution is sufficient, however if I wanted to simulate the group rounds as well I should have used something like a Poisson distribution on the prediction of goals of both parties.
* Repeat last step *n* times, where *n* = 10,000

[Black & Yellow - NYC Taxi Trip Data Exploration](https://www.kaggle.com/tuomastik/black-yellow-nyc-taxi-trip-data-exploration)

https://www.kaggle.com/tuomastik/black-yellow-nyc-taxi-trip-data-exploration/data

The aim of this Kaggle competition is to predict the duration of taxi trips in New York City. Accurate estimates of taxi trip durations can improve the taxi utilization and the satisfaction of drivers and passengers. If a taxi dispatching system knew approximately when a taxi driver would be ending their current ride, it would help identifying which drivers should be assigned to which pickup locations. Additionally, the predictive model could be used for finding optimal routes for different kinds of trips.

[Weekend - Which Wine Wins](https://www.kaggle.com/hiteshp/weekend-which-wine-wins)

<https://www.kaggle.com/hiteshp/weekend-which-wine-wins/data>

Based on the dataset provided on Kaggle.com following analysis will be done using Python:

* [Best Wine Producing Country - Point wise.](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#best-wine-producing-country---point-wise.)
* [where are coslty Wines made,](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#where-are-coslty-wines-made)
* [Which Country Makes Coslty Wines.](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#which-country-makes-coslty-wines.)
* [Where are Economic Wines made,](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#where-are-economic-wines-made)
* [Which Country Produce Economic wine.](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#which-country-produce-economic-wine.)
* [Average Price of Wine - Country wise](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#average-price-of-wine---country-wise)
* [Country Wise Costly Winery](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#country-wise-costly-winery)
* [Country Wise Economic Winery](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#country-wise-economic-winery)
* [Country, provision wise best Winary -Price wise](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#country-provision-wise-best-winary--price-wise)
* [What are most common words used to designate a wine-Word clould for designation column.](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#what-are-most-common-words-used-to-designate-a-wine-word-clould-for-designation-column.)
* [What are most common words used to describe a wine- Word clould for description column.](https://www.kaggleusercontent.com/kf/3887830/eyJhbGciOiJkaXIiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2In0..KEw7Cj5mAfyDwjcE1yn5kw.lvFf53UV8DRKsJcWXlSOUTqTm57U147hIOYV-DcRX94Cw-V2CkkQt3kN2SFs-VeaIEQMT6ytNFnWb1GRdiDPzFu4Lez7JZ3bKP8844TIwsyB-_AlpM9-UMVVrVfRgwNTT0fy4z18BPUaHu4EAdFwoQ.VM5CJELyf6ftB2_Lca4ACw/__results__.html#what-are-most-common-words-used-to-describe-a-wine--word-clould-for-description-column.)