Using Hollinger’s Stats to Predict NBA Playoff Outcomes: A Machine Learning Analysis

**Note: All data and Jupyter Notebook files can be found in this Github Repository.**

**Introduction**

As sports betting continues to be legalized across the county, a reliable way to predict the outcomes of sports games has never been more useful. With Vegas favorites only winning the NBA championship 49.4% of the time, ample opportunity exists to bet on an “underdog” and make a fortune (Diederichs, 2021). However, is there a better way to determine this winner than simply going with your gut? Using Hollinger’s NBA Team Statistics and four machine learning classification algorithms, I attempted to figure this out.

**Project Overview**

To answer my question, I utilized five of Python’s extensive data science and machine learning libraries (Seaborn, Numpy, Pandas, Matplotlib, and Scikit-Learn), within the easily readable structure of the Jupyter Notebook. These libraries allowed me to create both visualizations and predictions from the data. I then imported the data into the Jupyter Notebook, created the visualizations, then ran the four chosen classification algorithms (Random Forests, K Nearest Neighbors, Logistic Regression, and Gradient Boosting). The overall process as to use the regular season data as features to predict the playoff outcome of the team.

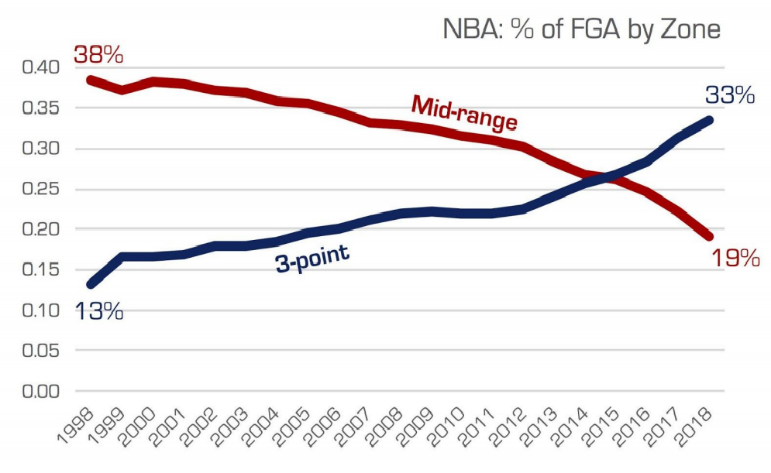
**The Data Set**

Table

Description automatically generatedThe raw data for Hollinger’s NBA Team Stats (HNTS) looks as follows:

Each column represents the following:

* **PACE:**Pace Factor - the number of possessions a team uses per game.
* **AST:**Assist Ratio - the percentage of a team's possessions that ends in an assist. Assist Ratio = (Assists x 100) divided by [(FGA + (FTA x 0.44) + Assists + Turnovers]
* **TO:**Turnover Ratio - the percentage of a team's possessions that end in a turnover. Turnover Ratio = (Turnover x 100) divided by [(FGA + (FTA x 0.44) + Assists + Turnovers]
* **ORR:**Offensive rebound rate
* **DRR:**Defensive rebound rate
* **REBR:**Rebound Rate - the percentage of missed shots that a team rebounds. Rebound Rate = (Rebounds x Team Minutes) divided by [Player Minutes x (Team Rebounds + Opponent Rebounds)]
* **EFF FG%:**Effective Field Goal Percentage
* **TS%:**True Shooting Percentage - what a team's shooting percentage would be if we accounted for free throws and 3-pointers. True Shooting Percentage = (Total points x 50) divided by [(FGA + (FTA x 0.44)]
* **OFF EFF:**Offensive Efficiency - the number of points a team scores per 100 possessions.
* **DEF EFF:**Defensive Efficiency - the number of points a team allows per 100 possessions.

HNTS was chosen as the data for these algorithms as it is one of the most encompassing advanced statistic data sets available, with the stats given encompassing all major aspects of the sport. However, while HNTS data exists from the 2002-2003 season onwards, I chose to limit this analysis to 2015-2016 onwards. While it may seem like an arbitrary season at first, domain knowledge of the NBA shows otherwise. As can be seen in the diagram from ShotTracker below, around the 2015-2016 NBA season a boom in three point shooting began, with teams favoring the outside shot over any other scoring option in basketball. This can all be attributed to the 2014-2015 champion Golden State Warriors, who led a three-point revolution on the backs of Stephen Curry and Klay Thompson. With that championship team defining a new viable strategy for success, other teams began implementing an increase in three point attempts, thus marking a new era in basketball. Therefore, to ensure that the data used to create my predictions was relevant to today’s style of play, I decided to limit the data to 2015-2016 onwards.

Chart, line chart

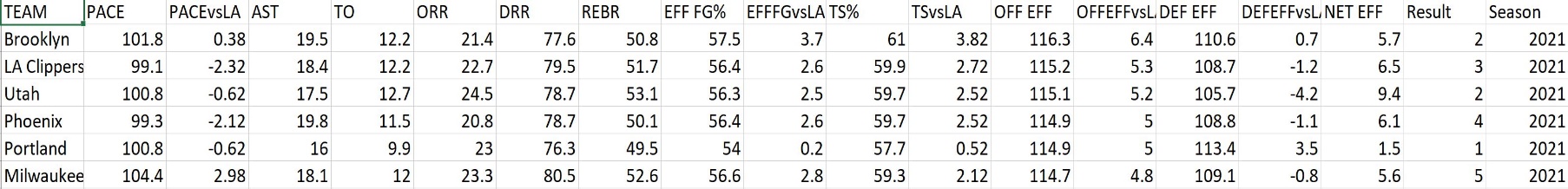
Description automatically generated After deciding to limit the data to 2015-2016 onwards, I made two more alternations to the data. Firstly, while I had already ensured all the data came from the same era of basketball, I still had to make sure each data point was comparable *within* the era. Looking at the methodology behind each statistic, I saw that AST, TO, ORR, DRR, and REBR were all standardized as a percentage, and were thus likely to be fairly comparable between the seasons in this era. To confirm my predictions, I used ‘groupby’ calls to determine the average of each statistic in each season. These were the results:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SEASON | PACE | AST | TO | ORR | DRR | REBR | OFF EFF | DEF EFF | EFF FG% | TS% |
| 15-16 | 98.1 | 16.9 | 13.2 | 23.8 | 76.2 | 50.0 | 103.9 | 103.9 | 50.3 | 54.1 |
| 16-17 | 98.7 | 17.1 | 12.7 | 23.3 | 76.7 | 50.0 | 106.2 | 106.2 | 51.4 | 55.2 |
| 17-18 | 99.6 | 17.4 | 13.0 | 22.3 | 77.7 | 50.0 | 106.2 | 106.2 | 52.1 | 55.6 |
| 18-19 | 102.4 | 17.8 | 12.4 | 22.9 | 77.0 | 50.0 | 107.9 | 107.9 | 52.4 | 56.0 |
| 19-20 | 102.7 | 17.7 | 12.8 | 22.5 | 77.5 | 50.0 | 108.0 | 108.0 | 52.8 | 56.4 |
| 20-21 | 101.4 | 18.1 | 12.4 | 22.2 | 77.8 | 50.0 | 109.9 | 109.9 | 53.8 | 57.2 |

As is apparent in the above title, my prediction was proven true, with AST, TO, ORR, DRR, and REBR all staying consistent from year to year. However, all other stats have visible shifts from year to year, even though we are considering them in the same era. So, to remedy this, I replaced those stats (PACE, OFF EFF, DEF EFF, EFF FG%, TS%) with their difference from league average in each season. I also created a column for net efficiency (NET) by subtracting DEF EFF from OFF EFF.

The second alternation I made was introducing a column called ‘Result’, to allow for the use of classification algorithms. As per the goal of this project, I wanted ‘Result’ to be the playoff outcome of the team. I used the following labeling system:

* 0: Missed playoffs
* 1: First round loss
* 2: Second round loss
* 3: Conference finals loss
* 4: Finals loss
* 5: Champion

The final data set looked as follows:

A picture containing shoji, crossword puzzle

Description automatically generated**Exploratory Data Analysis**

With the above data set, I used Seaborn’s data visualization features to visualize any apparent trends in the data that would indicate what I should expect to see after running the algorithms. All the visualizations can be seen in the file titled ‘NBAPlayoffResults EDA’, but for brevity these are the major findings:

**Chart, box and whisker chart

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Chart, waterfall chart

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**Chart, scatter chart

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It is reasonable to draw three major conclusions from these visualizations. First, that net efficiency and offensive efficiency rule the NBA, with defensive efficiency seemingly not as important. Second, that the similarity between groups 4 and 5 in all graphs shown here suggests that discerning between a ‘finalist’ and a ‘champion’ is probably a futile effort. Finally, that TS% and EFF FG% are redundant statistics, as they are both variations on measuring the shooting percentage of a team. Thus, I decided to eliminate EFF FG% from the dataset, as TS% more accurately represents the increase in three-pointers in today’s era.

**Algorithms**

As stated earlier, I used four classification algorithms to determine if I could predict the playoff outcome of a team: Random Forests, K Nearest Neighbors, Logistic Regression, and Gradient Boosting. All four of these algorithms are “supervised” learning algorithms, a term used to describe algorithms in which the expected label (in this case, the playoff result) of the data is known during training and testing. For brevity, I’m not including the methodology and mathematics behind these algorithms.

**Methodology**

As stated earlier, all algorithms were run in Python, using the Jupyter Notebook. The file for each algorithm can be seen in this Github Repository, named by algorithm used. For each algorithm, data was scaled as necessary, and grid search with cross validation was used to ensure that the optimal hyperparameters were selected. Any data point for a team that did not make the playoffs was removed, as it would be useless to predict a team not making the playoffs after knowing for sure that they are not making the playoffs. Finally, a train-test split size of 70/30 was used, with the same random split used for each algorithm to ensure they could be compared.

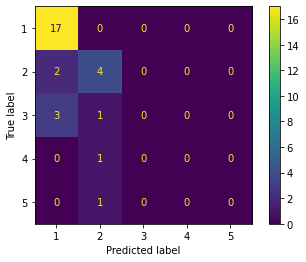
Graphical user interface, application

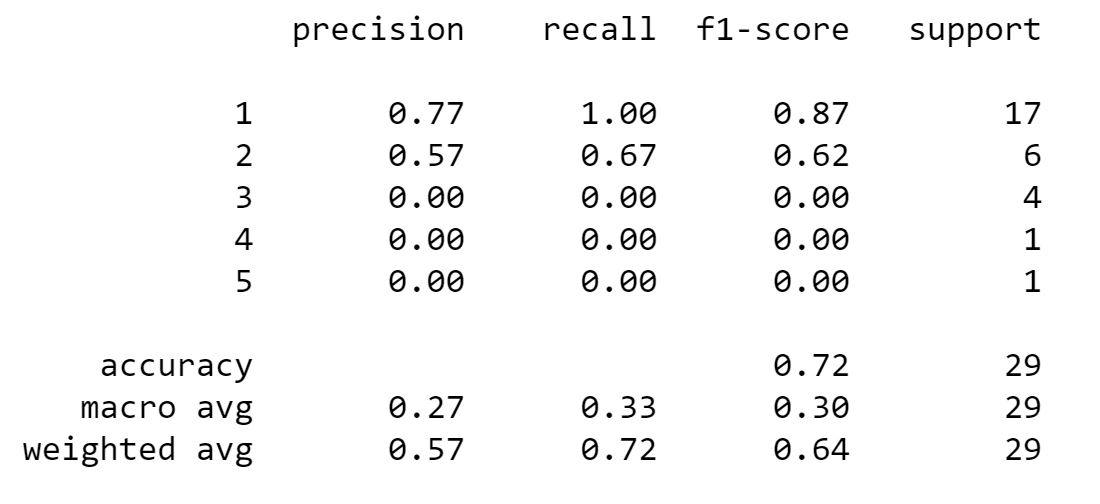
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Table

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Shown above are the classification report (left) and confusion matrix (right) for the Random Forest algorithm. The classification report provides key statistics on the data, while the confusion matrix how the predictions made by the algorithm match to the true values. From the classification matrix, we see that the overall accuracy of the model is 62%, with an f1-score (another measure of accuracy) of only 40% for group 5, and 0% for groups 3 and 4. Overall, this model does a good job predicting first round exists, but not much else.

**K Nearest Neighbors**



From the classification report, we see that the overall accuracy is 72%, but that results from the high f1-score of groups 1 and 2. The confusion matrix shows that no team was predicted to be better than a second round exit, indicating that while the accuracy of this model is high, it doesn’t do a good job in practicality.

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA8ADwAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZpbmF5AAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MAAAkpIAAgAAAAM0MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAeUeLfH/ja5fW7XwV4c+wW+kJJ9p1jVuEJRckQoM7z6HkeoFbXwW8Sat4t+Fun6v4gu/td9NJMry+WkeQsjKOFAHQDtXQeOP+RA17/sHT/wDos1xf7Of/ACRHSv8Artcf+jmoA9RooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvNfH3j3XIPFll4J8AW1tP4gu4jPNcXeTFZxf3mA6n8+3BzXpVfP9l400bwj8ePiFrPii6EZgiggtIgMyy5UHYi9STge3PNAGrq+v8AxT+F8cOteLdQ07xRoJlVLz7PbiGW1DHG5dqjIHqc/h1r2Wzu4b+xgu7RxJBcRrJG4/iUjIP5V4B420zxh8RfAmteJvFbzeHtBsrOW507RI2/ezsqkq85/Xb/AC6n1L4PyPL8HvDLSsWb7CgyfQZA/QUAdnRRRQB5Jf8Ahf43S6lcyWHj7SYLV5XaCJrGMlEJO1SfJOcDArldY1L4xeGfGnh3Q73xtY6lc6tcgfZbaxhBESkb2YmEYGM9PevoG4uIrS1luLl1jhhQu7scBVAySa8i+FEMvjjxxrnxK1BG8iRzYaOr/wAECn5mH1/nuoA6L40eItZ8L/D43/hu9+w3zXsEKzGJJMB2weHBH6Vhr4R+NDIG/wCFmWHIz/yCIf8A43XQ/GDwtq/jDwGdM8PJC96t3DOonfYuEbJya5S+8b/GDwlZNqPiTwbo2o6ZbrunOlXDLJGg6nDMxP4LQB6vosGoWuh2cGtXi3uoRwqtzcogQSuBywUAAZPbFXqx/Cniew8Y+GLPXNJZjbXabgrjDIQcFT7ggitigAooooAKKKKACiiigAooooAKKKKACiiigArzz4jePtV0bWdM8KeC7OG98Satlo/tGfKtox1kfH0P5d+h9DrwfUPE+jeGP2lPEWt+KbtbaGx0WNLctyz52nai/wARPPT396ALus6n8XvhzY/8JDr2p6X4o0mEhr61hthDJAhPJQhVyB6nP0r17R9Vtdd0Wz1TT38y1vIVmib1VhmvFddtPFvxb8P6jqutG48M+Ebe1kntdPU4ub4qpKvL6LwOP/2q7P4DSSS/BXQvNJO1JFXPoJGxQB6JRRRQB5Vrfhr4zXOu3s2h+OdLs9OkmZra3kso2aOPPAJMJJOPc1xfivUPjN4P1HRbO78c2GoXerXa28FpbWEO9h/ExzCMKMjn3r6Id1jRnchVUZJJ4ArxzwBu+I3xa1fx5cAvpWlZ07Rg3RiPvyD8+v8Ate1AHoPjDxRceEfDsd7Fo17rV1JIkEdtZKCzSN0z6LkdQDj0ry628d/EeP42eGdE8Tmy0qx1aN5W0u1RZSqBHwHkIJ3ZUH5SBXuleI+N/wDk6zwN/wBekn/oMtAHt1FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXA/Ezx/e+Fn0zRPDNlHqHiTWpDHZQSn5IwOsj9OB/j6V31eF+KfEOmaD+1DDqPia8jtLDT9AMkTyn+IsRhR1LHJAAoAt6vP8AGjwTpkniLUdW0jxFZ2482802K2EZjT+LYwUE4Hcn8DXqvhnxBaeKvDNhrenE/Z72ESKD1X1U+4OR+FeTXn/CVfGm0uJnNz4Y8DqjMi/du9TAGcn+6h/L69tX9myR5PgxaCRiQl3Oq57DdnH5k0AesUUUUAeYeJfDnxfvPEl5ceGfG2mafpTvm2tpbON2jXA4JMRJ5yeprhPG978aPA9jZS3njzT7y4v7pbW1tLbT4TJK7emYQMCvorpXjXh1v+Fm/HK98Qt+80Lwrm0sO6yXB+84+n/xNAHpmpDxCvg8ro7Wja99nQI93nyfNwNxbb26nj8q821TT/jdoenz6yvinRNU+zIZpNN+xBEZQMkK20MeB3Ir2KvF/G/ij4szaPqFnb+BRYWD74pL+2u4ruYQ8gskIcHcV7GgD0D4c+Mk8e+BbHX1t/s0k4ZJogchJFOGwe4yOK6iuG+D9x4Zk+G1hB4MllksbbMcgnXbKsucvvHZiTnjjniu5oAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA4Pxf4z8S2viJfDfgvwtLqGovCsrX923l2durZALMOWOQfl4PHGaxPgh4w8TeKpPE8Xi2/jvJ9Nv8A7PH5UKRomNwIXCgkZH8WTXq9eJfs9f8AIX8e/wDYaf8A9CegD0rxvYeKtR0JIfA2r2+kaj5ys1xcRCRfLwcjBVhnOO1efN4V+OqKWf4i6OqqMkmwi4H/AH4r2SvNPjb4nutM8LweHdDJbW/EcosrVFPzKh4d/YYOM+9AFL4GeI/F/ie21y78Vaumq2dvdfZrK5S3jiWQrney7UXI6da9YrF8H+GrXwh4R07Q7IDy7OEIzAfffqzfiSTW1QAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAeN/Ef45eE9Ng8Q+FbmPUf7RSGW1JWBTHvKEDnd05HauU+CPxk8M+HfBmjeEr9L46lJdNEpjhBj3Synb824f3hnivo+igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvDfiF4fbwb8YrT4jP4ek13SJYhHeRwxeZJaSAYEwXp0A5PTnkcV7lRQB4T4t+I8nxb0VvCHw30zUJjqLCO+1C5tzHDaxZ+bJ9eMfyzXs2gaRB4f8O2GkWv8AqbK3SBDjqFGM1oUUAeMeN/ij4y0D41aZ4Z0nRUuNMuDEOYWL3AY/OyvnA2/pjmvZ6KKAPJvjnr13PYab4D0Fs6r4lmELbescGfnY+x/kGr0fw7odr4a8OWOjaeu23soViT3wOSfcnn8a0qKAOd8Z+ONG8BaRHqXiF5ktpJRCphjLncQT0H0rzrWvjXbeL9EutH+HOg6treo30TQLKbXZBBuG0s7E8Yz9PevZ8ZooA5L4X+D5PAnw907Q7iRZbmINJOynK+Y53ED2GcfhXW0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFeJfFjwtLo/wAStH+IsXh9vEFhboIdRs44/MePbnZKq98Z/DA6dR7bRQB4b4n+Lg+Ivh+fwt8NdJ1O81HUl+zT3E1uY4rJG4cu2Tg4yPT+VeseDvDsfhLwdpmhQv5gsbdY2fH32/iP4kmtqigDxn4p/FDxj4R+JGjaL4f0aO5sLsISzws7XTFsMikHggfzz0r2VSWRSw2kjJHpS0UAeYfHHxTc6X4Vg8OaGS2teI5RZWyIfmVGIDt+Rxn39q7PwX4YtvB3g/TtCswNtpEFdwPvueWb8SSa3KKAMDxp4y0zwJ4dbWtbW4a0WVYj9nQM2W6cEivnLxJ8Y/DOrfHLwz4ttUvhpulwPHOHhAkJIccLu5+8O9fVlFAHL+BPiDo3xE0m41Dw+t0sFvP5D/aYwh3bQ3ABPGCK6iiigAooooAKKKKACiiigAooooAKKKKACiiigArxn40eD7g+KdB8dWeh/wBvw6U2zUNNCb2lizkMF77cnj6ds17NRQB4nrnxsg8WaDPoHw60TVrzXL2M24SS18tLMMMFnOSBgH6e9ejfDvwkPBHgLTNB3rJLbx5mdBw0jHcxHtk101FAHjvxo+Jni7wN4g0Sz8MaVHc294MvJJA0nnPux5SkHg459ea9dtJZJ7OGWeIwyyRqzxk5KEjJH4dKlooA89+NHjGXwp4Ekg0wltY1dxY2Mafe3vwWH0B/Mitn4ceEIvA/gPT9FQAzRp5ly4/jlblj+fH0FdTRQBjeK/FWmeDPDs2t648iWUDKrtEm9gWYKOPqRXnx/aI8M30bReF9L1vXb4jEdta2R5btk54Hvg161RQB5x8F/Bup+FfDeo3evxLbajrV699LaI2RbhuiccZr0eiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDgfHPxk8M/D7WotM19L8zywiZTbwq67SSOpYc8V4l8J/jJ4Y8F3/iibWEviuq6i1zb+RCG+Qlj82WGDyK+q6KAKtlqEF9pMGoxkpBPCs6mTgqpGefwrx/4fhviV8XtX8e3KltJ0gnT9HDDhiPvSD8yc/wC17V7VRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRXnPiL4szWXiC60Pwn4R1fxLqFkdt15KGGGE4yAZGU849sHsTU3gf4sWnizXZ/D2q6Pe+HtfgTzGsL0Z3r3KtgZ9eg45GaAPQKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorj/HfxI0vwIlrBPb3O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iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAAMdKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKrahqNnpNhLe6ndQ2lrCu6SadwiIPcmgCzRXFaV8YvAGt6sNN07xNavdM21VkV4lc+is6hW/A12tABRRRQAUUVy1l8SvCWo+MJPC1lrCz6zGzK1skEhAKjLDft2cfWgDqaKbJIkUbSSuqIgLMzHAUDuTXCXHxw+HFrqH2KXxTamXdt3RxSPHn/roqlf1oA72iq2n6jZ6tYRX2mXUN3azLujmgcOjj2IqzQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVj+IvFmg+ErNbrxHqttp8THCec/zP8A7qjlvwBrO8MfEzwd4yuTbeHNdt7u4AJ8gq0UhA6kI4BI+goA6mikd1jRndgqqMlicACuHn+NPw7ttU/s+XxVZ+fnaSqu0YP/AF0ClP1oA7mio7e4hu7eO4tZUmhlUMkkbBlcHoQR1FSUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXG+NNa8dWV/b2fgbwzaakske+W9vbsRxwnOAu3ILevBrsq8k8SeKfF/if4rXHgbwTqVvoMOn2yz3upS24nkOcfKiNx/EP15FAEX/CzfHPhDWdOg+J/hvT4NO1GdbePUdKlYrE56BlZmP8vxr1XVNTs9G0m51LUplgtLWIyyyt0VQMk187fGLwz4q0Hw/pkniX4htr0MupQrHYyafHbktk/OCGJOPp3r0b4+rdt8D9V+xbiR5Jl2/88967qAMqx+JHxK8bK2ofD7wfp8Oi7iIbvWZiGuQD1VVZcfqPevRvCGoeINR0PzPF2kRaTqSSMjwwzCVGA6OpBPB9Mmk8DT2Nz4B0OTSShtDYxCPy+gwoBH55reoA818Y/FO+svFn/CI+A9CPiDxAqB5w0myC1B6b29eRxkdRznirXhTWPig+vQ2vjXw5o8enzBt15ptwf3JAyAyMzE5xjI9a5b4Myxx/FD4i2+olBq7ajv5GGaHc2Me3I/MV7TQBwnj3xvqXhbxZ4R0zT4LWSDW7429w06MWRfl5TDAA89wa6XxVqs+h+EdV1S0WN57O0kmjWUEqWVSRkAg4/GvNvjKRH8QfhvI5CoNXILHoCdldr8Tr22sPhh4glvZ44EaxljVnbGWZSAo9ST2oAf8AD/xJeeK/h3pevajHBHdXkBkkSBSEByRwCSe3rXnHhv40eKvFumvY+G/DEOp+II7iVJ3G6CztIw2ELszEsxHYH/Cuw+DH/JEvD/8A16H/ANCasH9nIAeAdSIHJ1i4yf8AvmgC54N+I/iWTx83gz4h6Jaadqslubm1uLGQtDOo6jBLEdD37HgV0PjXWfGun3NrbeB/DVtqxmRmmuru7EUcBB4BXILZ56HtXRyaRps2qxanNp9rJqEKFIrtoFMsanqofGQOTwDXmXjDxd4r1n4rR/D/AMEX1vozxWn2u81KaATMF44RG47j8+oxQBVuPib8QPBV9ZP8TPDGmrpF3OsBv9JmYiBm6blZmJ/T+les3+pWmmaXPqN9OsNpbxGaSVjwqAZJ/KvnP43eFvF2g/Dxp/EfxGfXLd7mNVsJNNjtzI2fvBg5PHXgV6T8aVu3+Aep/Ys7hbQmTH/PPcu79KAMmy+JfxF8b7734deEbGPRlcrFe61KVNxg9VVWUj9R716H4S1DxLqOhSP4s0iDSNUSRk8uGYSxuMDDgg9DnpnPFR/DuewuPhvoEmklDafYIggToCFAI+uc10lAHnnww8f6p4qv9f0XxRbWlprWi3ZieO1VlV4+gfDMx6g9+4p/xJ8ean4Y1bw5onhq3tLnVtbvBEEulZlSIfefCsp7+vY1y/jBf+EB+P8AoXipD5em+Il/s2+5wok4Csf/AB38jU/hVf8AhOP2gde8SMfM07w3ENMsjnKmU/fYe4+b8xQB7AM7RuwTjnFLRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFeM/EWEeOfjb4c8C3js2kWtu2p31uCQJiMhQ2O3H6mvZq+fficniPSv2iNJuPC89ra3uu6Z9ggursfJEdx3MP8AaAxgc8npQBsfGmPwDYeFj4bTQ7e416ePGm2el2yi4hbs/wAoyq8c+o7Gur+CPiS48UfCXSby+dpLmENbSO3VzGcAn8MVW0vwRoXww8Jaxr2oXDahqzW0kt9q94cyynb0BP3QTgYHXjOag/Z402fTvgzpn2ldpupJbhAf7rNwfxAz+NAHp9FZOs+KtB8Oz2sOu6vZ2Et222BLiUIZD7Z7e/StXPy5HIxkY70AcJ8U/GF1oOk22i+HQJfEmuP9m0+IHlM8NKfQKD19a830TwXZeBfj94O0q0/eTHSZpLu5PLXEx37nJ6nnp7VBpPizxFYfErWfFPiL4c+KdTvnY2un/Z7CTyrW3B6LleS3Un/Gs/WPiRqNz8dNC11/AviGGe1sJIl0yS1YXEwO751XGSBn07UAes/HPTdY1X4RatbaAsklx8jyxRfekiDZdQO/HbvisDw34r+EMvwxS4kg0S3tbe3VLuyuLaPzg+3BUoRudiQcEZz61o/EH4m6noPwig8Q2Wlz6ZqmoyLBDb38ZD2rMT8zqR1AGcH1FZUX7O3h7U9BN1q2o38/iS6xcyaykxVllPOVQfLtB9s+4oAt/s86Vf6f4J1G4ubaaz0/UNRkudNtZs7o4CBjg9Af16969ary/wCCni3Wdcs9b0PxJcLfXvh+8Np9uX/l4XkAn3+Xr+fNeoUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAYOp+B/DWs+IYdc1bR7W9v4IvKjkuE3hVzn7p4z6HGRXk3xy0PTdF8QeDNV8N2cFlr0mrJEhtIwjSp3yF64OBn0Jr1Xxr420nwJoL6lrEhLMdlvbR8yXMnZEHc/yrjfA/gzWPEHihfiD8RECakVxpeljlNPjPQn/bI/L68AAj/aI1O7svhzb2cEr28Gp38VrdzIcbIjktz6HGK7Wy8C+FoPCsehxaLYvpxhCGMwKd/H3iccseuetWvFfhbS/Gfhy50XXITJazgcqcMjDoynsRXnsXwq8TaPpzWo+LOrW2h26HEZtkWSKMf9Ny2QAPYYoAj+AlxPp3/CVeEZpTJDoWpvHa7myViYnA/TP416/XjH7O+jC3s/E2swTXNzZ6hqJS0ubt98txHHkeYzYGck9a9noAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvOPGXwj/4SDxYvijw34jvfDWt+UIpbi2TzFlUf3l3L298cDivR6KAPHNT/AGe4NYtFn1bxXqWpa4J45P7SvlMoRFOTGke8BQfqcV61d2FtqGmy2F/ClxbTxGKWNxw6kYINWaKAPIYvgdqWhTSJ4F+IOsaBp8jljYtH9oRM9duWXH1wT7mvQvCPh2fwxof2G81q+1q4aRpJLy+fc7E9h6AY4HatyigDz3xp8IdO8Ua8niHStVvvDuvooX7fYPjzAP7y5GeOOCPfNP8ACnw88QaNrsOp+I/iBquv+QGEdq0YghJIIyyhm3EZ4rv6KAOW+IHgHTviFoCadqM01rLBKJ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Logistic regression shows horrible results, with an accuracy of 48%, and an f1-score of zero for groups 3, 4, and 5. In fact, as seen in the confusion matrix, only a data point from groups 2 and 3 were predicted to be a champion.

**![A picture containing text, receipt

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA8ADwAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHZpbmF5AAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1OAAAkpIAAgAAAAM1OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK8o8W+P8Axtcvrdr4K8OfYLfSEk+06xq3CEouSIUGd59DyPUCgD1eiuC+C3iTVvFvwt0/V/EF39rvppJleXy0jyFkZRwoA6Adq72gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiuF8Y+M/Edhr8fh3wb4Wm1PUpoRKb25by7OBSSMsw5JyD8vB9M1gfBPxj4o8Uan4rtPF1/Ddy6Xei3jEEKxohBcMFwASMrxuyaAPWaKKKACiivJdY8aeMfGPjjUfC/wyeysLfSSEv9ZvI/MCyH+CNcEEj3B6Hp3APWqK8esvGXjjwD4x0vRPiZcWOraXrEnkWusWsQiMcvZXUADnjt3zk9K674mePf8AhBNAhls7T7fq2oTi10+zz/rZT6+w/wAKAOzorxu7tvjnpemvrz61ol+8SedLoaWoC7RyVV9oYtj/AGvxNegeAfGVr488G2mu2kZhMuUmgJyYpFOGX8/0xQB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRXnnxG8faro2s6Z4U8F2cN74k1bLR/aM+VbRjrI+Pofy79Dy+s6n8XvhzY/wDCQ69qel+KNJhIa+tYbYQyQITyUIVcgepz9KAPa6KpaPqtrrui2eqae/mWt5Cs0TeqsM1doAKKK8p1Txn4t8YeOtS8K/DmSz0230jC6hrF3F5u2Q/wRp0JHPXPQ9O4B6tRXkEfi7xr8PPGGk6T8Q76y1vSNZl+z2+qwQCCSGXsrqMLg57fnxivX6ACivBvi38U/FMGoalb/Du7S1s/DqK2rXxhSQNK7BViXerDIzk49+eOfaPD11NfeGdMu7p/MnntIpJHwBuYoCTgcdaANGiiigAooooAKKKKACiiigAooooAKKKKACiiigAorgfiZ4/vfCz6Zonhmyj1DxJrUhjsoJT8kYHWR+nA/wAfSuU1ef40eCdMk8Rajq2keIrO3Hm3mmxWwjMafxbGCgnA7k/gaAPaaKy/DPiC08VeGbDW9OJ+z3sIkUHqvqp9wcj8K1KACiivLvEfjfxPr3xAuPBPw5+x209hEJNS1W8TzFt89ERO7c98/hjNAHqNFeN3nirx78MNb0sePNSsvEegalcC2a/htRbzWrt0JVQF2/4dR377xxYeLNT0SKPwHrNtpF95wZ7i4iWRWjweACjDrjtQB01FeNP4W+OkUbSSfEbR1RQWZjYRYAHf/UVf+BXiPxb4p0nWL/xXqi6pax3f2exuUgjiWQLkOyhFXIJx1oA9WooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorg/F/jPxLa+Il8N+C/C0uoai8Kytf3beXZ26tkAsw5Y5B+Xg8cZoA7yivKPgh4w8TeKpPE8Xi2/jvJ9Nv/s8flQpGiY3AhcKCRkfxZNdp43sPFWo6EkPgbV7fSNR85Wa4uIhIvl4ORgqwznHagDo6K8bbwr8dUUs/xF0dVUZJNhFwP+/FXPgZ4j8X+J7bXLvxVq6arZ2919msrlLeOJZCud7LtRcjp1oA9YooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsLxx/yIGvf9g6f/ANFmt2vG/iP8cvCemweIfCtzHqP9opDLakrApj3lCBzu6cjtQBp/s5/8kR0r/rtcf+jmr1GvnD4I/GTwz4d8GaN4Sv0vjqUl00SmOEGPdLKdvzbh/eGeK+j6ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK8R+AP8AyN/xF/7DL/8AoySuy8dfGDw18PNWg07X0vjNPD5yG2hV125I6lhzxXh/ws+Mfhnwdr/i681dL4xaxqDXNt5MIYhCzn5ssMH5hQB9WUVV0vUIdW0m01G1DiG7hWaMOMMFYZGR6815F43+KPjLQPjVpnhnSdFS40y4MQ5hYvcBj87K+cDb+mOaAPZXJEbEdQDivnH4YfEXSfBXg/WC0Mmp+JNV1ufydLtvmmnfgAkfwr15PvgGvpCvnuzjtfgb8T9c1HXvD091ouquZrPWbW381rTcSWjY/wAIyfrwOvYAxvin4Y8VzeFrbxp481Nk1Q6hClnpFq37ixRmzj/afgZI/M9ut+J+p2tl8a/h1PrtzHbabbQz3MsszbUVgucn3yF/P3qLU9Vuvjt4m0Sy0HTb628J6ZdLe3mo3cXlrcsv3UQd+/554wM7nx28C3XiTS9J1vStNTVLrQ7jzX09lz9qgJBZAB1+6OO/NAFObW/E/wAZ55LLwo1x4e8Ghilxq7rtuL4dCsI7L7/n/dpn7N1uLDRfFWmwu721lrckMO85IUAD+gpZPj7pU2i/2X4S8NaxJr/leTBpQstogfGBux0Uew7dq674R+DLrwT4FjtNVZX1S8me7vSpyBI/8Oe+BgfXNAHc0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAeD6h4n0bwx+0p4i1vxTdrbQ2OixpbluWfO07UX+Innp7+9Lrtp4t+Lfh/UdV1o3Hhnwjb2sk9rp6nFzfFVJV5fReBx/+1Vr4seFpdH+JWj/ABFi8Pt4gsLdBDqNnHH5jx7c7JVXvjP4YHTqIvE/xcHxF8Pz+FvhrpOp3mo6kv2ae4mtzHFZI3Dl2ycHGR6fyoA674DSSS/BXQvNJO1JFXPoJGxXolYvg7w7H4S8HaZoUL+YLG3WNnx99v4j+JJrzP4p/FDxj4R+JGjaL4f0aO5sLsISzws7XTFsMikHggfzz0oA9mrwTTNcb4K/EjxQPFdhe/2Drl19stdUghMqIxJJViOn3sY6jHTBr3pSWRSw2kjJHpXAeKPjT4V8JeIp9D1IahNqMKqxgtbUyFtwyMHOOhoA8t+MXxM0jxx4d0u28N6dqsyRanDKmpS2bR24bkBQx53HPpXq/wASvGV14a8O2unaIon8SaywtdOgHJDkfNIfZetcvHFrvxh8VaRe6loN3oPhLR7gXaR6iuy4vph93KdlH4j3Pbp/HHwj0bx5r1rq+o6prFhd2sPkxtp1wkWFyTnlGOefWgDjfH3gy38D/s06ppkTeddP5c15cnlp5mkUsxP16e1er+E/+RM0b/rxh/8AQBXhfxX+DemeFvhrqer2viTxLeS24TEF7fLJE2XA+ZQgz19a9J+FXw+svCmk2+q2uravfS6hYxb4r65WSOLIDfIAox6dTxQB6FRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB4X4p8Q6ZoP7UMOo+JryO0sNP0AyRPKf4ixGFHUsckACp7z/hKvjTaXEzm58MeB1RmRfu3epgDOT/dQ/l9e0/xo8H3B8U6D46s9D/t+HSm2ahpoTe0sWchgvfbk8fTtmodc+NkHizQZ9A+HWiatea5exm3CSWvlpZhhgs5yQMA/T3oA1P2bJHk+DFoJGJCXc6rnsN2cfmTXrFcz8O/CQ8EeAtM0HesktvHmZ0HDSMdzEe2TXB/Gj4meLvA3iDRLPwxpUdzb3gy8kkDSec+7HlKQeDjn15oA9irwifUp/g/8aPEWt6/p15N4c8RKki6jbRGRbd17PjpyW/TGa9ytJZJ7OGWeIwyyRqzxk5KEjJH4dK4nxd8YfC3grX/AOxdYN61/wCUsqxW1sZNwOcYOevBoA8q+NfxV0Lxr8Np7Dw7Y6rdx/aIpP7QNkyW8RDdC7YOT0HFfQejeZ/YNh53+s+zR7/rtGa8lvJdd+NerabbHQL7QvB9lcpd3E2pJ5c18y8qipzhc98n69q9kd47eBnkKxxxqSxPAUAUAeZ/G/xJd2vh608J6CxOteJZhZwqp+ZIicO/qBg4z7mu48K+HrXwp4V0/RLAYhs4Vjz/AHj3Y+5OTXlvw1V/iL8VNZ+Id2pOm2JOn6MrdNo+84/Pr/te1e00AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFcD45+Mnhn4fa1FpmvpfmeWETKbeFXXaSR1LDnigDkP2ev+Qv49/7DT/+hPXttfKnwn+MnhjwXf8AiibWEviuq6i1zb+RCG+Qlj82WGDyK+obLUIL7SYNRjJSCeFZ1MnBVSM8/hQB598bfE91pnheDw7oZLa34jlFlaop+ZUPDv7DBxn3rsfB/hq18IeEdO0OyA8uzhCMwH336s34kk15f8Pw3xK+L2r+PblS2k6QTp+jhhwxH3pB+ZOf9r2r2qgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiii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AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAorjfGmteOrK/t7PwN4ZtNSWSPfLe3t2I44TnAXbkFvXg1yP8Aws3xz4Q1nToPif4b0+DTtRnW3j1HSpWKxOegZWZj/L8aAPYKKqapqdno2k3OpalMsFpaxGWWVuiqBkmvJ7H4kfErxsrah8PvB+nw6LuIhu9ZmIa5APVVVlx+o96APY6KwvCGoeINR0PzPF2kRaTqSSMjwwzCVGA6OpBPB9MmuS8Y/FO+svFn/CI+A9CPiDxAqB5w0myC1B6b29eRxkdRznigD0qivP8AwprHxQfXobXxr4c0ePT5g268024P7kgZAZGZic4xketS+PfG+peFvFnhHTNPgtZINbvjb3DToxZF+XlMMADz3BoA7uisnxVqs+h+EdV1S0WN57O0kmjWUEqWVSRkAg4/Gs74f+JLzxX8O9L17UY4I7q8gMkiQKQgOSOAST29aAOnorxHw38aPFXi3TXsfDfhiHU/EEdxKk7jdBZ2kYbCF2ZiWYjsD/hW94N+I/iWTx83gz4h6Jaadqslubm1uLGQtDOo6jBLEdD37HgUAeoUVyHjXWfGun3NrbeB/DVtqxmRmmuru7EUcBB4BXILZ56HtXF3HxN+IHgq+sn+JnhjTV0i7nWA3+kzMRAzdNyszE/p/SgD2Oiqt/qVppmlz6jfTrDaW8RmklY8KgGSfyryay+JfxF8b7734deEbGPRlcrFe61KVNxg9VVWUj9R70Aex0Vz/hLUPEuo6FI/izSINI1RJGTy4ZhLG4wMOCD0Oemc8Vznww8f6p4qv9f0XxRbWlprWi3ZieO1VlV4+gfDMx6g9+4oA9Dorz/4k+PNT8Mat4c0Tw1b2lzq2t3giCXSsypEPvPhWU9/Xsa78Z2jdgnHOKAFooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAK2oajZ6TYS3up3UNpawrukmncIiD3Jrk9K+MXgDW9WGm6d4mtXumbaqyK8SufRWdQrfga474iwjxz8bfDngW8dm0i1t21O+twSBMRkKGx24/U1H8aY/ANh4WPhtNDt7jXp48abZ6XbKLiFuz/KMqvHPqOxoA9qorgPgj4kuPFHwl0m8vnaS5hDW0jt1cxnAJ/DFd/QAVDd3dtYWsl1fXEVtbxLuklmcIqD1JPAqavB/iNruheIvi+vhzxrrEWn+F9Dtluri3km2fbbhsbVIHLAA9B7+tAHer8a/h7JrEGlw+JYZ7u4lWGJYYJZFZ2OAN6oV6nrnFd3Xm3hLxj8I9SvYdK8KTaLHcK2IYRY/ZyzD+7vRdx+mTWj8YfFtz4M+Gmoalp7bL2QrbWz8fI7nG7njgZP4UAX/EfxM8G+Erg2/iDxBaWtwoy0CkyyL9UQFh+VaXhnxTo/jDRl1Xw5efbLJnaMS+U8eWXqMOAf0rx3wnrPwU8E2VvBqGraZqWtyqHu9Qmtnu2eU8sfMCMFGT2I969p0O60i90mK68OyWkthN80b2e3y29fu8ZoA0KKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKx/EXizQfCVmt14j1W20+JjhPOf5n/AN1Ry34A1sVg6n4H8Naz4hh1zVtHtb2/gi8qOS4TeFXOfunjPocZFAFTwx8TPB3jK5Nt4c123u7gAnyCrRSEDqQjgEj6Cuod1jRndgqqMlicACvCfjloem6L4g8Gar4bs4LLXpNWSJDaRhGlTvkL1wcDPoTW/wDtEand2Xw5t7OCV7eDU7+K1u5kONkRyW59DjFAG/P8afh3bap/Z8viqz8/O0lVdowf+ugUp+tdrb3EN3bx3FrKk0MqhkkjYMrg9CCOorAsvAvhaDwrHocWi2L6cYQhjMCnfx94nHLHrnrXB/AS4n07/hKvCM0pkh0LU3jtdzZKxMTgfpn8aAPX6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA8k8SeKfF/if4rXHgbwTqVvoMOn2yz3upS24nkOcfKiNx/EP15FcN8YvDPirQfD+mSeJfiG2vQy6lCsdjJp8duS2T84IYk4+nevTfGXwj/wCEg8WL4o8N+I73w1rflCKW4tk8xZVH95dy9vfHA4rD1P8AZ7g1i0WfVvFepalrgnjk/tK+UyhEU5MaR7wFB+pxQBq/H1btvgfqv2LcSPJMu3/nnvXdXYeBp7G58A6HJpJQ2hsYhH5fQYUAj881q3dhbahpsthfwpcW08RiljccOpGCDXlUXwO1LQppE8C/EHWNA0+RyxsWj+0Imeu3LLj64J9zQB69Xi3wZljj+KHxFt9RKDV21HfyMM0O5sY9uR+Yr03wj4dn8MaH9hvNavtauGkaSS8vn3OxPYegGOB2rmfGnwh07xRryeIdK1W+8O6+ihft9g+PMA/vLkZ444I980AehV5B8ZSI/iD8N5HIVBq5BY9ATsroPCnw88QaNrsOp+I/iBquv+QGEdq0YghJIIyyhm3EZ4rW+IHgHTviFoCadqM01rLBKJ7W7gOHgkHcf4fyoAT4nXttYfDDxBLezxwI1jLGrO2MsykBR6kntWX8GP8AkiXh/wD69D/6E1YsfwPl1KIjxv4x1LxOYY3Wziuk2QQsVIEjR7jvYZ6kiu58GeGP+EQ8E6f4e+1/bPsUJi+0eV5e/knO3Jx19aAOC/ZyAHgHUiBydYuMn/vmvUJNI02bVYtTm0+1k1CFCkV20CmWNT1UPjIHJ4Brnfhz4F/4V/4fudM/tH+0PPvJLrzPI8rbvx8uNzdMdc111AHk3jDxd4r1n4rR/D/wRfW+jPFafa7zUpoBMwXjhEbjuPz6jFcF8bvC3i7Qfh40/iP4jPrlu9zGq2Emmx25kbP3gwcnjrwK9T8cfCdPFHia38S6Fr954c16GLyTeWq7xInoy5GeuOvTrXN61+zxH4i0ib+3fF+panrkhUR6leoZEgUHLLHCHAGen3jQBtfGlbt/gHqf2LO4W0Jkx/zz3Lu/Sup+Hc9hcfDfQJNJKG0+wRBAnQEKAR9c5rafTre40k6dexrcW7w+TKjrxIuMEEe9eVp8Db/QriUeAvH+r+HrGVy7WJT7RGpPXaCy4+pyfc0AevV4v4wX/hAfj/oXipD5em+Il/s2+5wok4Csf/HfyNeleEPDdx4Y0ZrO91y/1y4klMsl3fPuckgDA9FGOBXC/tE3elL8Mnsr1ydTuLiP+zIoj+9MwbqB1xjOfrQBW8Kr/wAJx+0Dr3iRj5mneG4hplkc5Uyn77D3HzfmK9hri/hN4Pk8FfDux0+8yb+bNzesTkmV+SCe+OB+FdpQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHz78Tk8R6V+0RpNx4XntbW913TPsEF1dj5IjuO5h/tAYwOeT0rutL8EaF8MPCWsa9qFw2oas1tJLfaveHMsp29AT90E4GB14zmuh8deAtJ8f6Mllq3mwywP5trd27bZbd/wC8p/pXFr8EL/VJIYPGvj7WPEOkwOHTT3XylfHTzG3MX/Q+9AFz9njTZ9O+DOmfaV2m6kluEB/us3B/EDP413Os+KtB8Oz2sOu6vZ2Et222BLiUIZD7Z7e/StK3t4bS2jt7aNYoYlCRxoMBVAwABXnHxO+C+n/EzWdO1G61W4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EGuLm/aE0LUrd4PBmj6zr+puCsNvBZkKG7Fz2H0BrZ+DPgjUPBnhK5Ou7F1TVbtr25iQ5WIt0T049vWgD0OiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiivBvjr8WJdG1uLwVZzz6ZDPGr6jqUKB5EibPyRLkckdSSKALfja5Hxb+JOkeFPD48/S/D94LzVdQTmNXXgRKehPUfUn0rpPjn4V1TxL4DhfQIGub7S7yO9jt16yhcggDucHOPauM8KfHT4V+DNAh0jQrLVobeMZZjaqXlbu7HfyTXr2o+MtK0rwQPFd6Zk03yI7g4jy4V8Y+UHryKAOFsP2hvCstnHDeWWsQ6wqgS6Wlg7zB+4Hbr6kVl/AG8fUPFPj29WynsILjUVkFrcoUkiY7iQy9jzzWlL8dodchNt8O/DGta9fyjbFIbXyrdCe7uTwB9APcV1Hww8F3Hg3w1MNWmS41nUrh73UJU5Uyt/CD6AcfnQB2dFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXM/EXQtQ8TfDzWNH0aZYb27tykTM20Mcg7Se2QMfjXTUUAeK+E/HfiHwV4XsPDuqfC3xCJ7GIQh9LtxPDIR/FuXgZ6nk9+as+FvDXiPxT8X08f6/oS+GrS1tTBb2buGuLgkEbpNvTqeD7fWvYaKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooARgSpAODjr6V4N4Qm8WfCO/wBctdX8Danr8eoXz3K6rpAE7yg9Ayjn35xjJ47171RQB4X4ptfFHxovNJsU8HXXhvSrO7W5m1HVgEnwP4Uj+8M/4dK9zRdiKoyQoxzS0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUEZ60UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/2Q==)Gradient Boosting**

**Graphical user interface, application

Description automatically generated**

The accuracy for gradient boosting came out to be 66%, with an incredibly high f1-score for group 1 of 97%. From the confusion matrix, we see that five teams were projected to be champions, with only one of them being a true champion.

**Conclusions and Future Models**

The results above show that none of our models are great predictors of playoff outcome. There could be three reasons for this. One, that our data is not good, either due to being too small or not containing predictive features. Two, that our models are not optimal, and looking into more classification models such as Support Vector Machines would be better. Three, that the NBA is simply too unpredictable. Every year injuries and lack of chemistry always alter the playoffs, and including metrics that could represent those statistics such as “returning minutes” and “games missed due to injury” could positively impact the results. I will attempt to do that in future models.

**Links**

<https://sport-net.org/how-often-does-the-favorite-win-in-nba-4/>

<http://www.espn.com/nba/hollinger/teamstats>

<https://shottracker.com/articles/the-3-point-revolution>