**MIS 505 PROJECT**

* **Comp/Att**

***Findings***

When we compare the performance of quarterbacks based on their pass attempts to completion ratio, there is a lot of information that can be found. First, we can see that the quarterbacks’ completions and attempts do vary greatly. With, this information shows which quarterback has been utilized by their respective teams the most. With Mahomes throwing over seven hundred passes more than the next competitor, it can see that Mahomes is the most utilized. Furthermore, the completion comparisons show how effective each quarterback is.

***Reasons for the visualization***

I chose the side-by-side bar chart in this instance because it is a very clear and concise way to show the comparison I am displaying. By keeping each quarterback’s statistics side by side this creates a quicker way for the data to be analyzed.

* **YPG/YPA**

***Findings***

When comparing yard per game, and yards per attempt, it is evident that Patrick Mahomes has been the most consistent throughout his career. I also put annotations in to show that the three other quarterbacks mentioned are benched. This is to show the viewer that Mahomes is the only one currently playing most of his team’s offensive plays. This further adds credibility that Mahomes is the best quarterback out of the selections.

***Reasons for visualization***

I chose this visualization because it is a clear way to show the progress over the years each quarterback has achieved. With each quarterback other than Mahomes having a huge drop-off, my intention was the further point out who the best quarterback may be.

* **TD/INT**

***Findings***

I chose to display the difference in touchdowns compared to interceptions for each quarterback. Looking at a consistency standpoint, we can certainly see that some quarterbacks stand out much more than others. I also put the annotation of Patrick Mahomes winning the league MVP award for 2018; the award given to the best NFL player for that year. This annotation helps the viewer acknowledge the significance of his performance for that year.

***Reasons for visualization***

This visualization is helpful in showing “the good compared to the bad.” Mahomes through much more touchdowns than interceptions, showing that he is much more consistent and does not typically hurt his teams’ chances of winning by throwing inceptions often.

* **Probability**

***Findings***

I believe showing the probability rates of each pass resulting in either an interception or touchdown is very vital in this comparison. This statistic shows how likely the player is to make a good play as opposed to a bad play on every play. As we can see, Mahomes once again shines in this category.

***Reasons for visualization***

I chose this visualization because the line chart demonstrates progress over the years. In Mahomes case, he has thrown less interceptions as his career have progressed, with the only outlier being this year.

* **Performance**

***Findings***

In this visualization, I chose to display each quarterback’s best statistical season. The purpose of this was to show how each quarterback performed in their best season compared to the competitions best season. This highlights the difference in the level of quarterbacks amongst the group. Immediately, the viewer can see that two quarterbacks stand out.

***Reasons for visualization***

I chose this visualization because it is a simple yet effective way to compare the effectiveness of each quarterback. Additionally, I colored the top quarterbacks QBR in red. By doing this, I am grabbing the viewers’ attention to the top performer.