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•5/30/21

Are NFL Players getting more athletic?



Description:

We have seen advancements in healthcare throughout the world over the last decade. People have seemed to have gotten healthier, so in this analysis, we want to see if NFL players have gotten more athletic since 2,000. To do this we will conduct statistical analysis on NFL player measurement data over the years.

Research Question:

•Are NFL players getting taller, faster, and stronger now compared to the year 2,000?

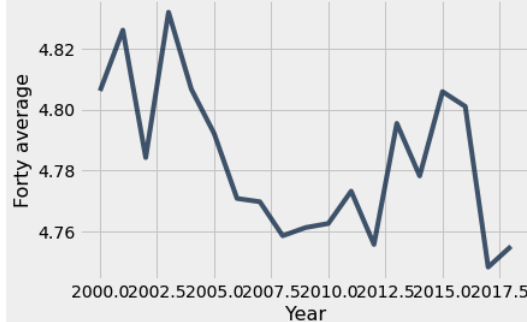
Data:

•The Data I will be using for this analysis is a Dataset from Kaggle which contains values for NFL players entering the NFL draft. The Data was collected at the scouting combine from 2000 to 2018. The Data contains observations such as height, weight, speed, etc.

Methods:

•I first plan on analyzing the dataset and observing any trends.
•Finally, I plan on using Colab notebook and python to create data visualizations and conduct statistical analysis.

Visualization One: Average 40 times



Visualization Two: Average bench press reps



References:

- Link-to-data
- Source for 40 yd dash
- Source Bench press

Description of Visualization:

Every year, college players entering the NFL draft run a 40 yard dash, in which they run 40 yards, timed. Faster players run the 40 yard dash in shorter amounts of time with the record being 4.22 seconds. As seen in the plot, the average 40 time across all players that ran the 40 seems to have decreased with time. This could be an indication that players are getting faster over the years and therefore more athletic.

Description of Visualization Two:

Also during the combine, NFL players do bench press reps. This visualization shows the average number of bench press reps per year. This average surprisingly seems to be decreasing as well which means, on average, players are not completing as many bench press reps during their workout.

Results from statistical analysis:

In this section, I will describe the results from the statistical analysis I plan on conducting. I plan on conducting hypothesis tests using the data, such as A/B tests.

Conclusion:

In this section, I plan on concluding my analysis and describe overall what I did.

Process:

