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CMSC320
Fardina
Checkpoint 1

Topic:

NFL Head Injuries: Causes, Prevention, and Implications

Link to Repository:

<https://github.com/ggates10/cmsc320-final-project>

Datasets:

NFL Concussions from 2012 - 2014

<https://www.kaggle.com/datasets/rishidamarla/concussions-in-the-nfl-20122014>

This dataset highlights numbers that affect the NFL greatly, and as NFL and general football watchers, it is clear that protocol has not gotten better or have any numbers gone down per say. With different matchups and different teams being given their statistics of game-time concussions, we can analyze any specific trends. With this dataset having information from injuries approximately 10 years ago, we can cross-reference current data and the factors of play style and referee leniency.

NFL Concussion totals 2015-2023

<https://www.kaggle.com/datasets/ajvazquez/nfl-concussions-from-2015-2023>

This dataset shows the amount of concussion injuries from games and practices over the span of 10 seasons. This dataset provides insight on where the NFL made changes for helmets and promoted concussion prevention throughout this time period. This dataset can give insight on when the right safety protocols were implemented and how the number of concussions resulted for that year, which will be useful for predictive modeling.

NFL Concussions by player 2012-2015

<https://github.com/ali-ce/datasets/blob/master/NFL/Head%20Injured%20Players.csv>

This dataset highlights concussion injuries by player, the year the injury(s) occurred, and the age of the player at the time of their first concussion. This dataset provides insight into the correlation between age and concussion frequency, which may allow us to discover trends in concussions throughout the NFL regarding position severity and background significance. Certain players may be prone to head injuries based on their previous playing time.

Concussions Data

https://github.com/stfurey/NFL_Concussions_Data_Analysis/blob/main/Concussion.csv

What makes this dataset unique from the others is that it includes the position the athlete played when they received a concussion, which will be useful when analyzing which specific group players in the league are impacted the most by head injuries. It also notes the amount of snaps that the player played prior to their injury compared to after, which is critical for noticing the impact of the injury on the athlete.

concussionsNFL

<https://github.com/Glaikit7/NFLConcussion/blob/main/concussionNFL.csv>

This dataset provides information on various 21st century NFL players and their head injuries. This dataset is unique in its providing of the head injury-causing player, when it was caused in the season, and how much time the player was out. Thus, giving detailed reports of each altercation presents another narrative in who is more likely to give and get injuries and allows us to possibly see if they go hand-in-hand.