NFL Kaggle Competition

Initial Data Set

Playlist: Describes the physical conditions of every play made by every player

- 267004 rows x 14 columns

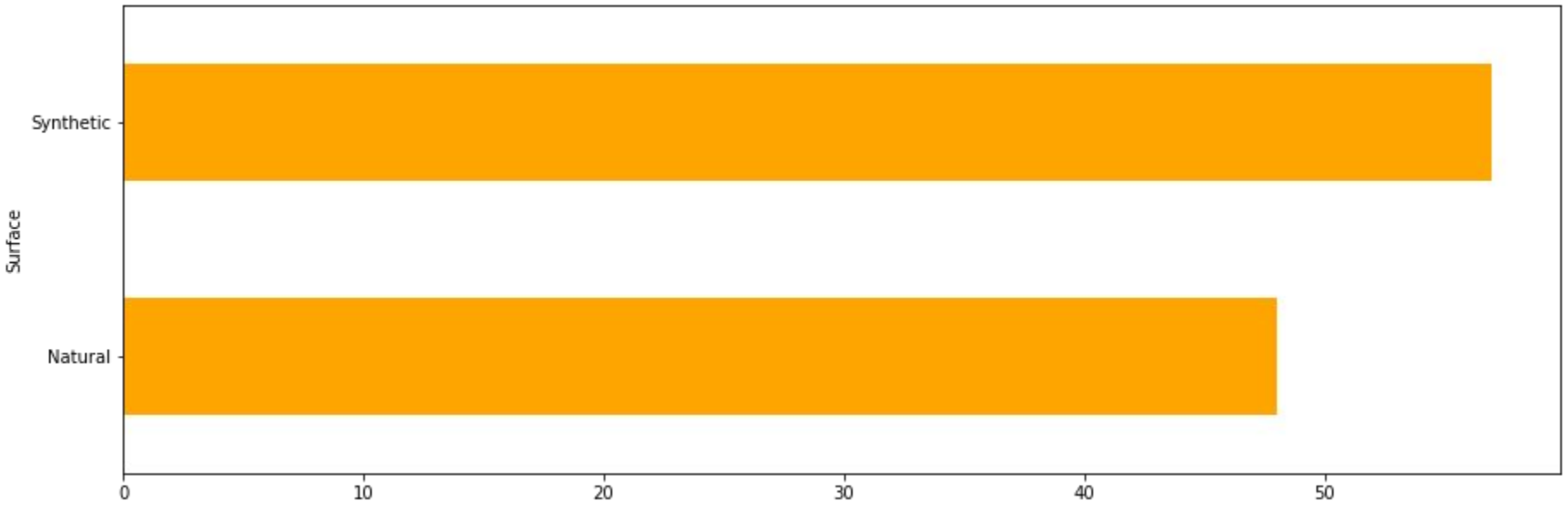
Injury: Tells which players got injured on what play and where for how

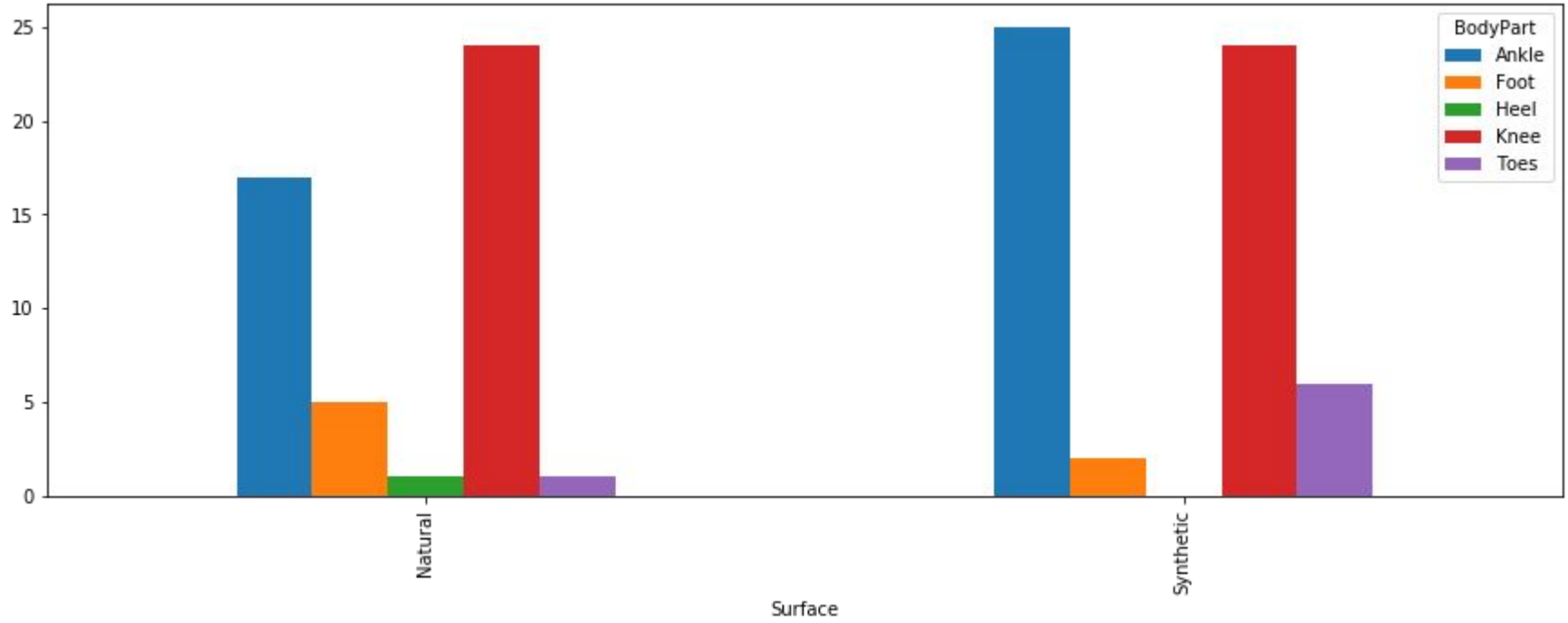
- 105 rows x 9 columns

Track: Describes motion of players for every 10th of a second

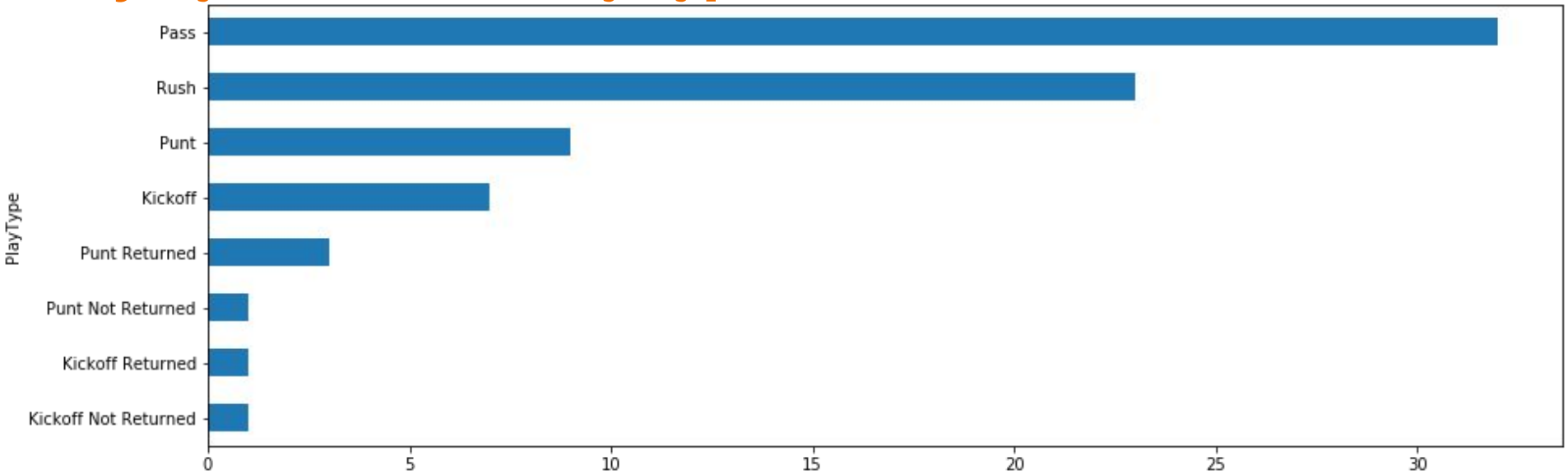
- 76366747 rows x 9 columns

Injury Based on Grass Type




25
20
15
10
5
0
BodyPart
Ankle
Foot
Heel
Knee
Toes
Natural
Synthetic
Surface

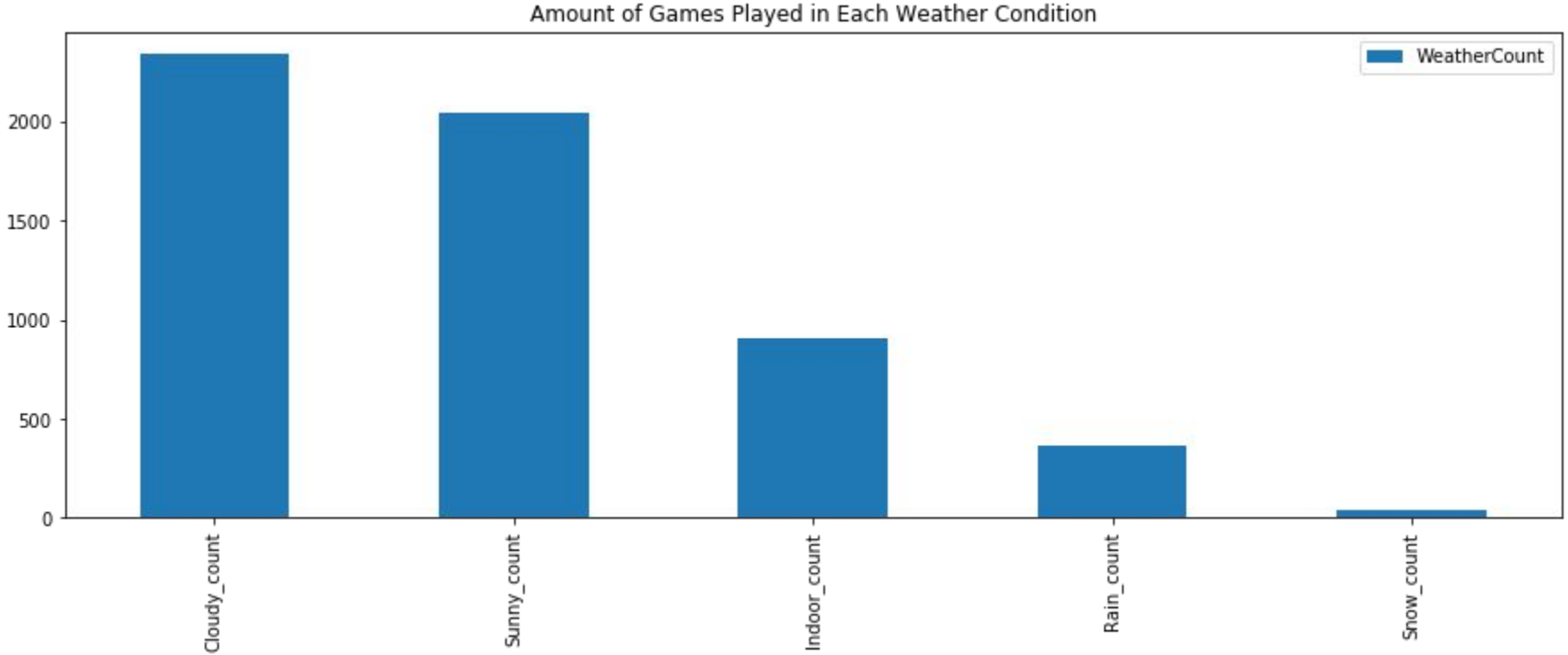
Injury Based on Play Type



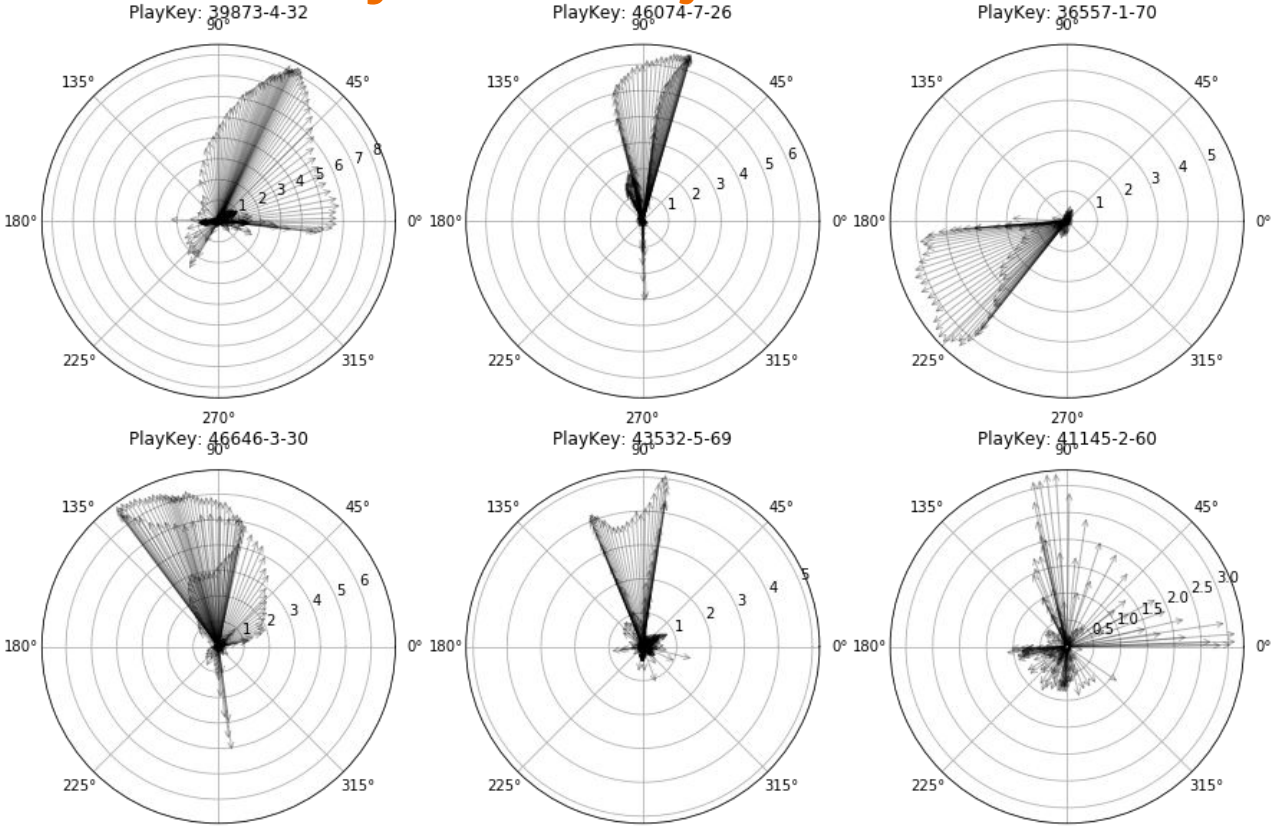
Fraction of plays that resulted in injury that are also pass plays: 0.4155844155844156
Fraction of plays that are passing plays: 0.5178519190813012
Percent difference is: 19.748406779743906 %

Fraction of plays that resulted in injury that are also rush plays: 0.2987012987012987
Fraction of plays that are rushing plays: 0.3473098358073493
Percent difference is: 13.995727184937396 %

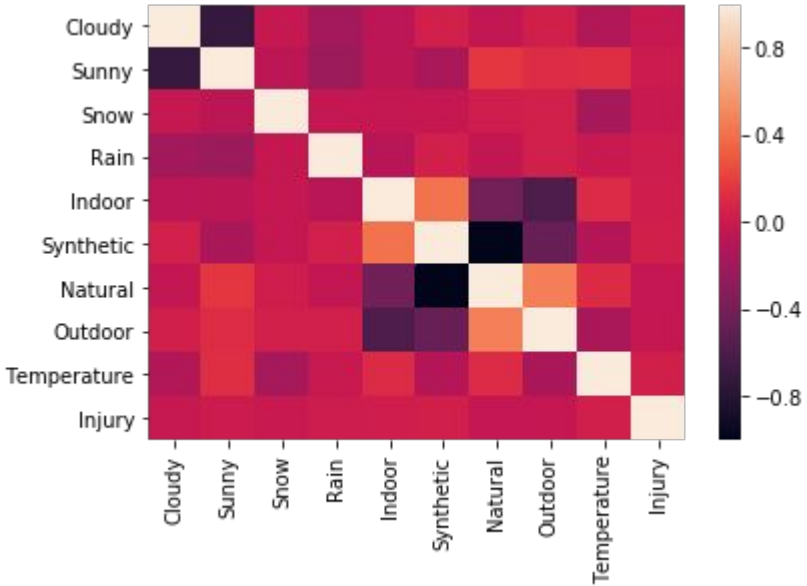
Weather Conditions

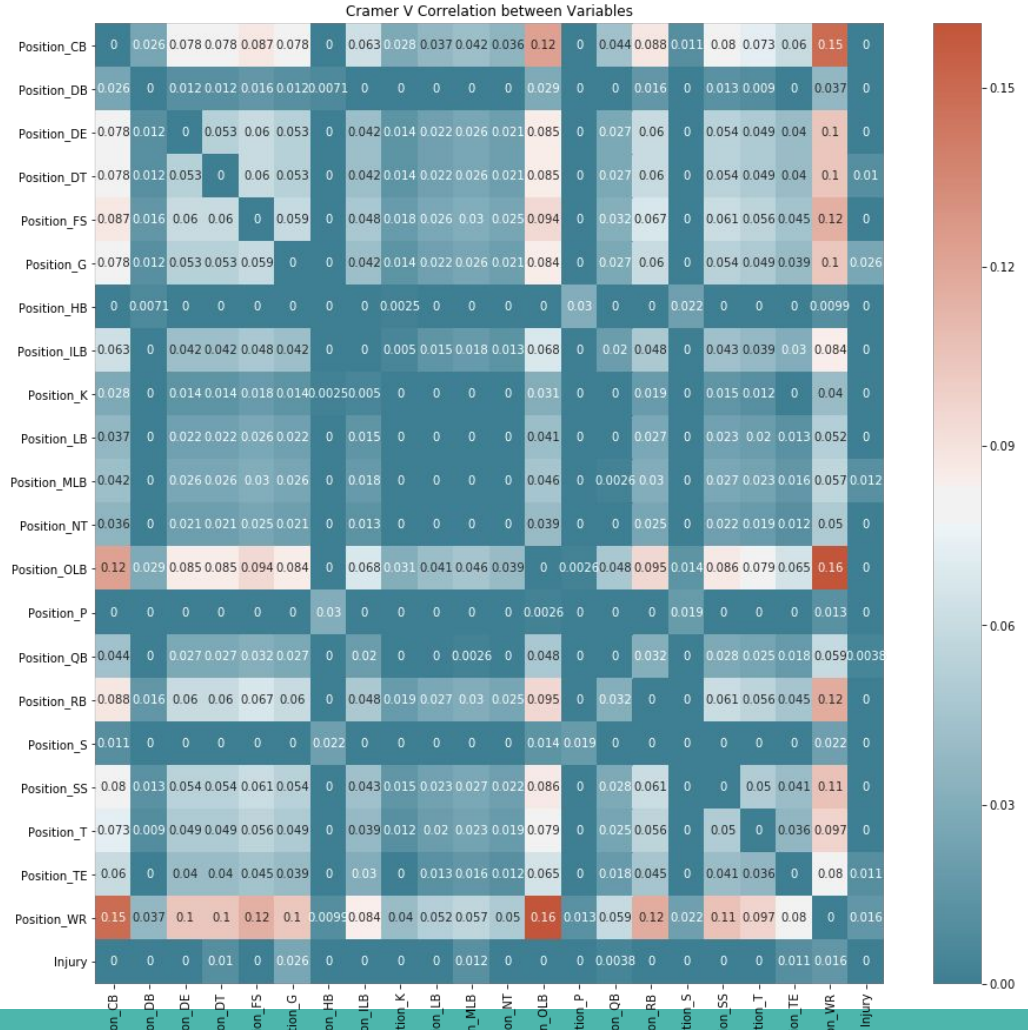


Motion Plots of Injured Players



Correlation Matrices



Cramer's V Matrices

Cramer's V Matrices