Josh Konowitz - NFL 4th Down Analytics

PROBLEM: NFL coaches currently use a 'gut' decision-making process on 4th down, resulting in punting on 75% of 4th downs

SOLUTION: Using machine learning to provide insights for coaches in order to help them make the most optimal decision

TECHNOLOGY:







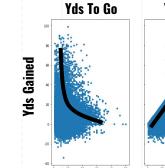


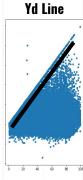


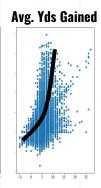




PREDICTING YARDS GAINED AND FIRST DOWNS:











Yards Gained: First Downs:

4.66 YDS .1415%

LEARNING OUTCOMES...

- I. Python Libraries
- 2. Machine Learning
 B. Data Science

NEXT STEPS...

- 1. Predicting Field Goals and Punting
- 2. Turning Predictions into Insights