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: **Average Error:** Yds To Go Yd Line Avg. Yds Gained **Yards Gained: First Downs:** 4.66 YDS **Yds Gained 14.15%** RANDOM FOREST REGRESSOR MODEL **Punt Distance: FG Completion:** 7.41 YDS 11.56%

LEARNING OUTCOMES.

- Python Libraries
 Machine Learning
- . Machine Learning
 . Data Science

NEXT STEPS...

. Turning Predictions into Insights