



Module 5 Project Overview



By Eric Sundstrom



Question:

How Well Can We Predict
'Makes' or 'Misses' In The NBA?

Without Looking At Who Is
Shooting The Shot!



Obtain

The Kaggle logo, featuring the word "kaggle" in a light blue, lowercase, sans-serif font. A small "TM" trademark symbol is positioned to the upper right of the letter "e". The logo is centered within a dark gray rectangular box.

kaggle™

- Shot Logs From
2014-2015 NBA
Season
 - All Data Sourced &
Shared by Kaggle user
dansbecker
-

Scrub



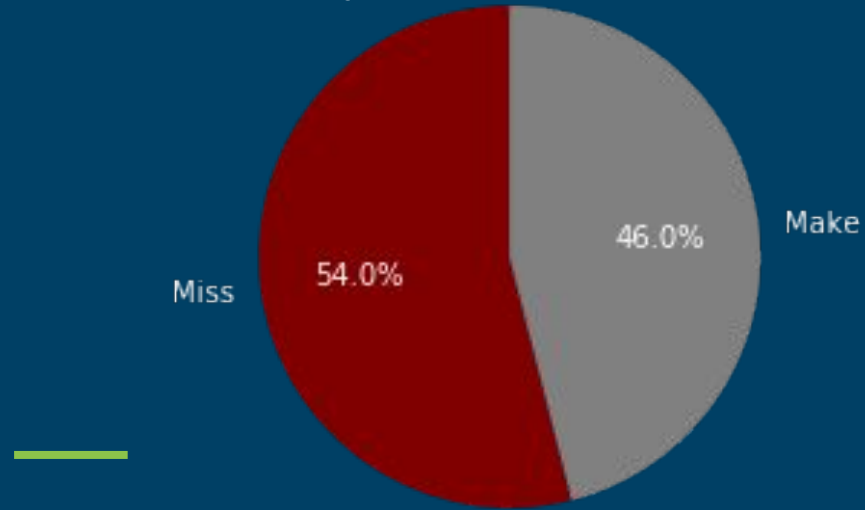
- Removed Null Values
 - Changed Variable Format
 - Ignored Data Not Applicable To My Question
-

Explore

Target Variable

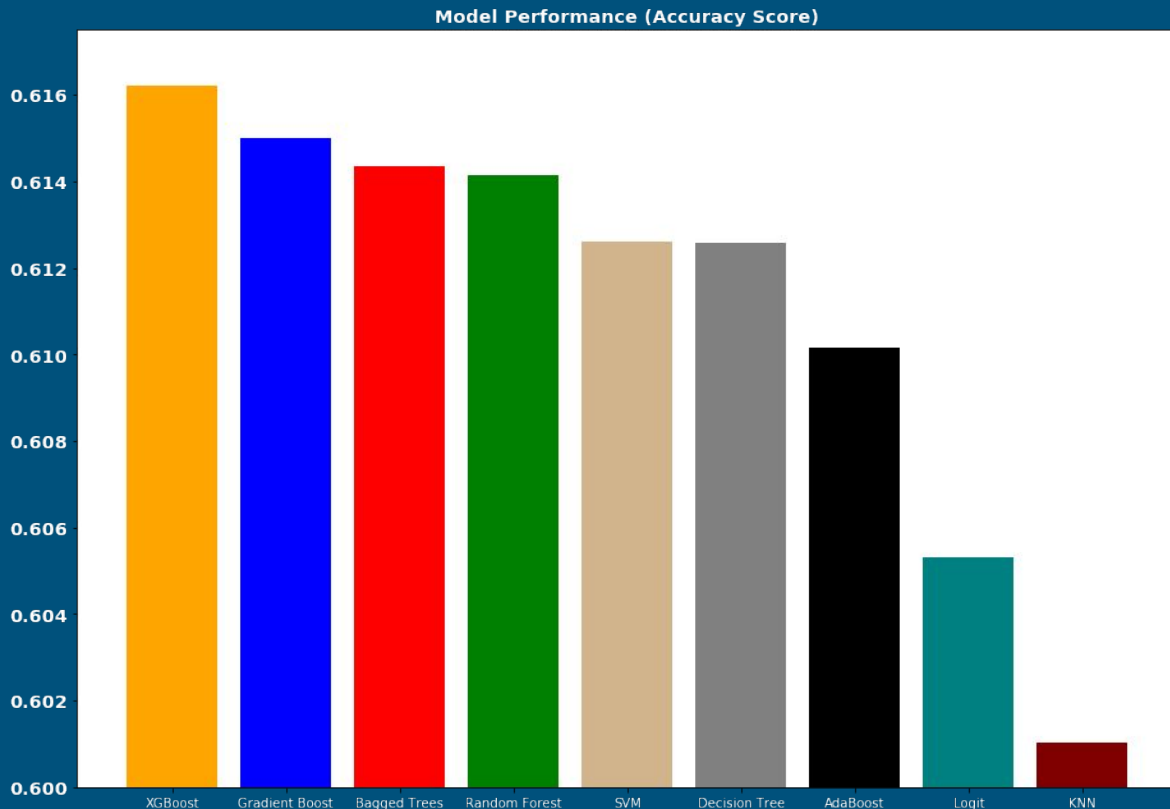
- Binary
- Unbalanced
- Chosen Metric:

Accuracy



Model

- Winner: XGBoost (61.6%)
- Runner-Up: Gradient Boost (61.5%)
- Worst: K Nearest Neighbors (60.1%)



Interpret

- Only ~8% Improvement Over Random Guessing
- Shooting A Basketball Is Not Easy

Improvements

- More Computational Power
- More Data For New Features



Kaggle Link: <https://www.kaggle.com/dansbecker/nba-shot-logs>