

## Getting Data & Exploratory Data Analysis

- We used datasets coming from Kaggle containing data of the past 18 NBA seasons
- Data cleaning
- Merging datasets
- Setting up our questions and hypotheses
- Instead of using plus/minus or other performances indicators we decided to build our own performance indicator score based on Draft Kings NBA's scoring

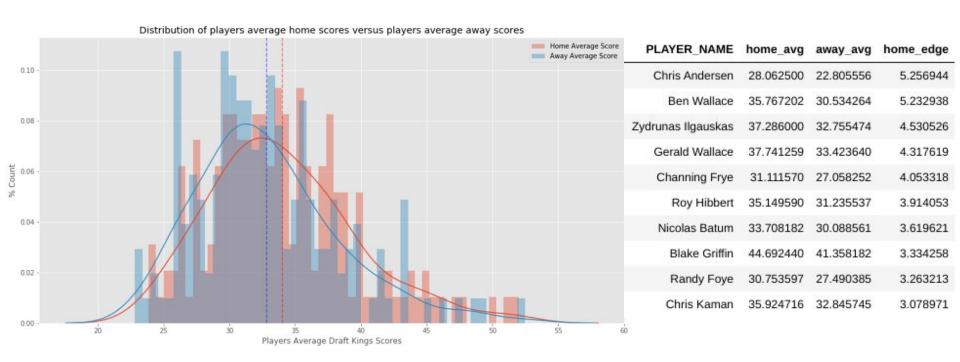
Is there a significant difference in player performance when playing Home vs Away?

**Ho:** There is no differences between players performances when they play at home or when they play away.

**Ha:** Players performances are different when they play home vs when they are away

Test used: Two sample T-Test

#### Is there a significant difference in player performance when playing Home vs Away?



### Question 1 Bis

Is there a significant difference in Gerald Wallace performances when he plays at Home versus when he plays Away?

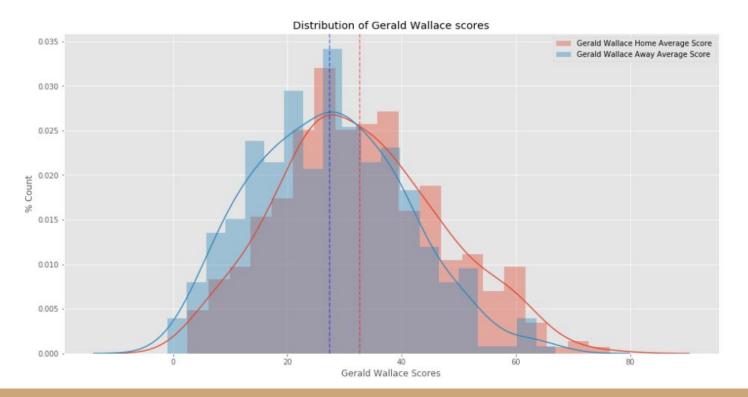
**Ho:** There is no differences between Gerald Wallace performances when he play at home or when he play away.

**Ha:** Gerald Wallace performances are impacted by whether he is playing home or away

Test used: Two sample T-Test

## Question 1 Bis

Is there a significant difference in Gerald Wallace performances when he plays at Home vs Away?



### Question 1 & 1 Bis be like:



We cannot reject the null hypothesis that players are more efficient when they play home compared to when they play away.

#### **BUT**

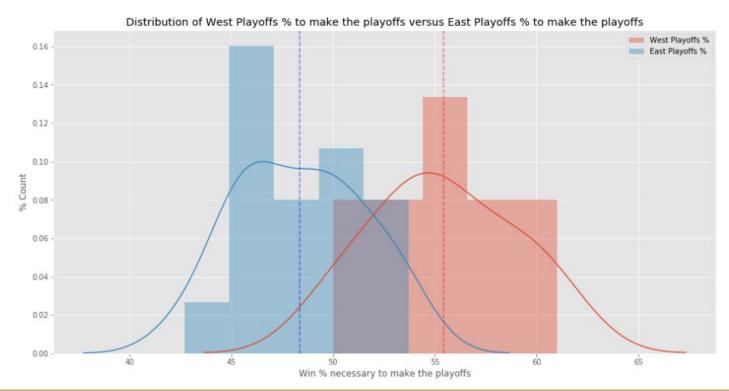
We can reject the null hypothesis that a specific player can play significantly better when he is playing at home.

Is it significantly easier for teams playing in the Eastern Conference to make the playoffs? **Ho:** It is significantly easier for teams to make the Playoffs in the East versus the West from the last 16 seasons.

**Ha:** There is no significant difference in ease for teams to make the Playoffs in the East versus the West from the last 16 Seasons

Test used: Two sample T-Test

Is it significantly easier for teams playing in the Eastern Conference to make the playoffs?



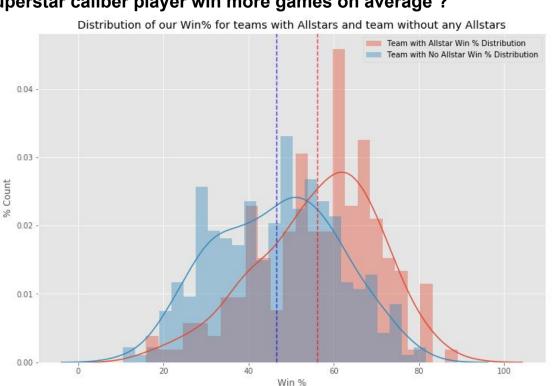
Do teams with one superstar caliber player win more games on average?

**Ho:** There is a significant difference in teams winning who have at least one or more players who are all stars(with a DF\_SCORE > 40 in their team)

**Ha:** There is no significant difference in teams winning who have at least one or more players who are all stars(with a DF\_SCORE > 40 in their team)

Test used: Cohen's d

#### Do teams with one superstar caliber player win more games on average?



# Questions and Answers

