





- Annual Passholder at WDW
- Avid Theme park attendee
- Dataset created by Lynne Passanisi on

## **Data.world**

- ★ Data from 2018
  - New rides have since been opened
- ★ Rides from all 4 Parks
  - Magic Kingdom
  - Hollywood Studios
  - Animal Kingdom
  - Epcot

# INTRODUCTION CONT...

### COLUMNS (27 in total)

- ★ Ride Name
- ★ Location (2 columns)
- ★ Ride Features (9 columns)
- ★ Fastpass Availability
- ★ "Classic" Ride Designation
- ★ Targeted Riders' Age Group (5 columns)
- Height Requirement
- ★ Ride Duration
- Age of Ride (4 columns)
- ★ Ranking of Ride (via Travel & Leisure)
- ★ Star Rating (via Trip Advisor)

What features of a ride or attraction affect the star rating?

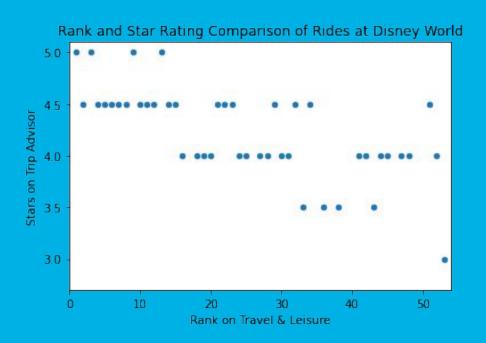


> AKA what makes a ride "great" rather than good.



# DATA VISUALIZATIONS

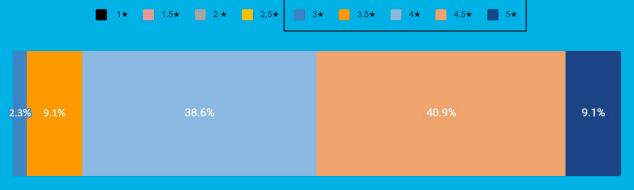
Rank of ride is not 100% correlated with star rating



# DATA VISUALIZATIONS

#### Star Distribution of Rides

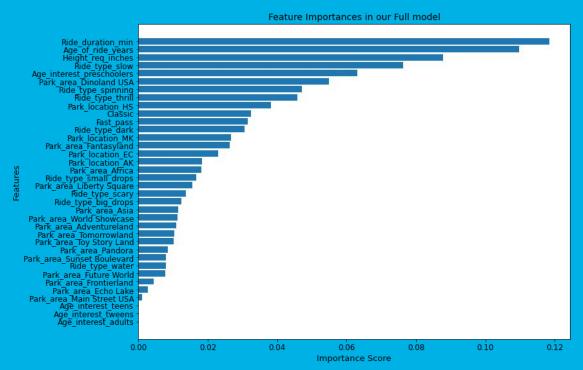
Percentage of Rides for Each Star Rating



## Distribution of star ratings:

- All above 3 Stars
- 50% < or = 4 Stars
- 50% > 4 Stars

## DATA VISUALIZATIONS



- ★ This chart shows the many features of our dataset
- ★ This is a ranking of how important each feature is to the model: i.e. how much does it actually affect the outcome?
- ★ High importance = more weight
- ★ Notice that some features had a score of 0
  - These were not included in the final model



THE CHOSEN MODEL

# MODEL EVALUATION

- ★ Baseline Accuracy **53**%
  - A baseline accuracy is if we guessed that everything was the majority option (lower starred rides).
- $\star$  The model predicted that **10/15** of the rides were low starred, when only **8/15** were
  - The model performs better for low-starred rides
    - It correctly identified about 88% of what was low starred
  - Only slightly better than baseline in differentiating high starred rides
    - Identified ~57% of the high starred rides correctly
  - Overall accuracy of 73%

# RECOMMENDATIONS

- Expand the data set
  - o more data (more rides) = can drastically improve this model!
    - Update to 2021/2022
    - Add rides from other popular amusement parks
- ★ For a successful/higher rated ride
  - Avoid slower rides
  - Avoid spinning rides
  - Increase thrill rides



Presentation by...

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