

## Capstone Project





- Agenda:
  - Work through Capstone Project Together
  - Q&A based on chat and Google Forms





- Let's put all your current skills together with a fun Capstone Project!
- This project takes us all the way back to 2015...
  - But before we begin, let's quickly review our ML Pathway!





Problem to Solve

How to fix or change X?

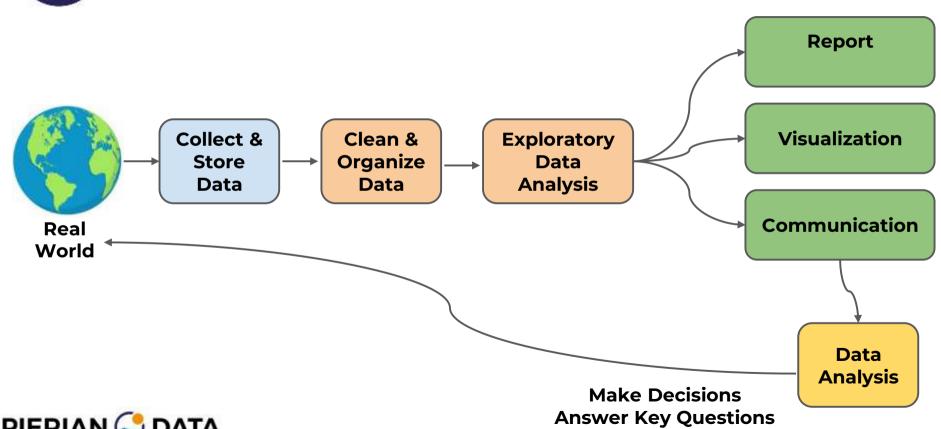


Question to Answer

How does a change in X affect Y?

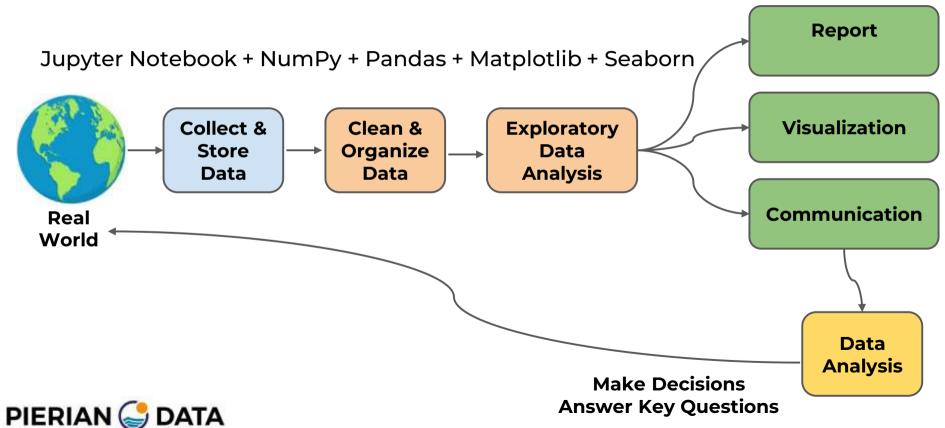














- Question to Answer:
  - Is there a conflict of interest for a website that both sells movie tickets and displays review ratings?
  - Let's travel back in time to the year 2015...





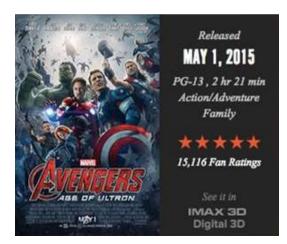
- 2015
  - Fandango sells movie tickets online







- 2015
  - Fandango sells movie tickets online
  - Also displays movie ratings







- 2015
  - You see Taken 3 has a 4.5 star rating on Fandango.





- 2015
  - You may be disappointed by the film...



[1080p] Taken 3 - Fence jump scene - 10 hours



- 2015
  - You begin to ask yourself...
    - Is there a conflict of interest for a website that both sells movie tickets and displays review ratings?
    - Can we answer this with data analysis?





#### Fandango

Fandango Media, LLC is an American ticketing company that sells movie tickets via their website as well as through their mobile app, as well as a provider of television and streaming media information, e.g., through its subsidiaries Flixster, Movies.com, and Rotten Tomatoes.

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#### History [edit]

## **FANDANGO** Fandango headquarters in Beverly Hills ticketmakers.com Formerly Joint venture Type

Fandango Media, LLC





### The Capstone Project

OCT. 15, 2015, AT 9:52 AM

#### Be Suspicious Of Online Movie Ratings, Especially Fandango's

By Walt Hickey
Filed under Movies
Get the data on GitHub





"Ted 2," "Avengers: Age of Ultron," and "Fantastic Four"

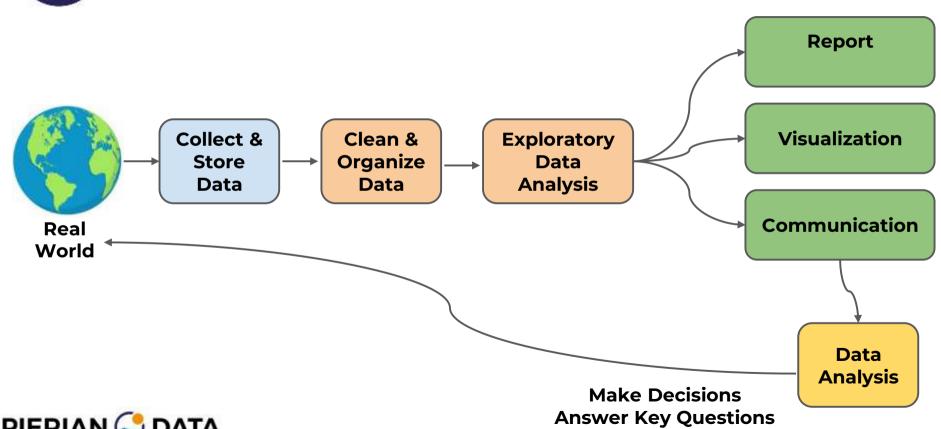




- Question to Answer:
  - Is there a conflict of interest for a website that both sells movie tickets and displays review ratings?
- More Specifically:
  - Does a website like Fandango artificially display higher review ratings to sell more movie tickets?

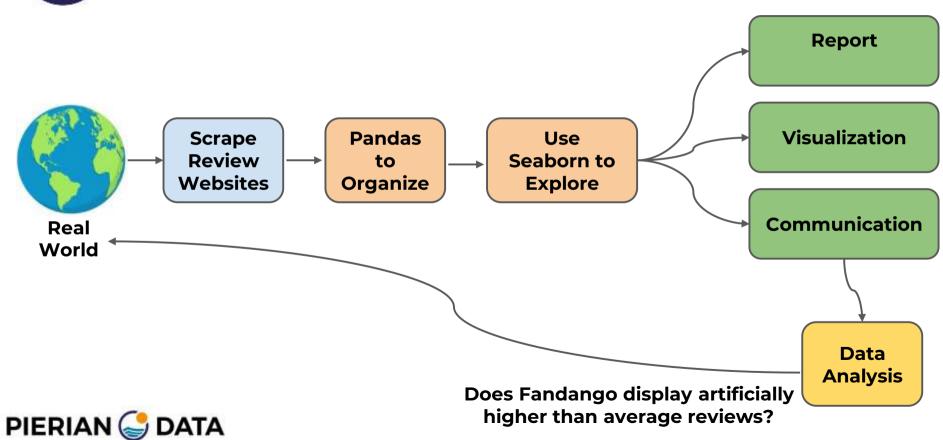




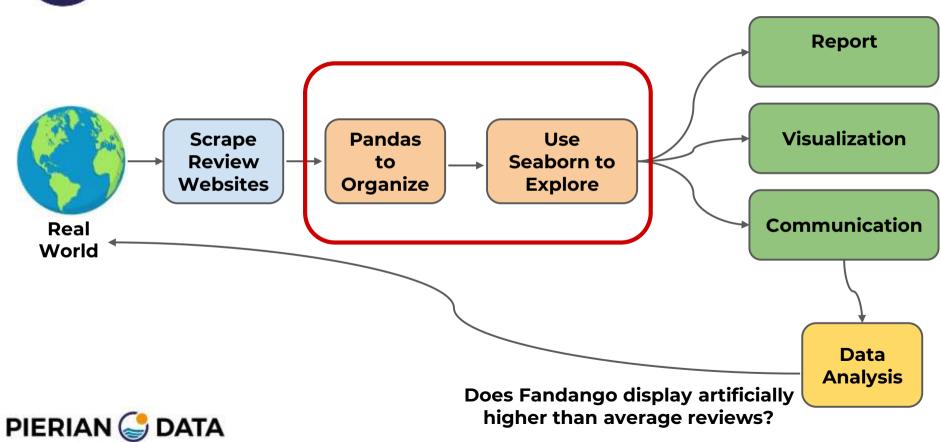




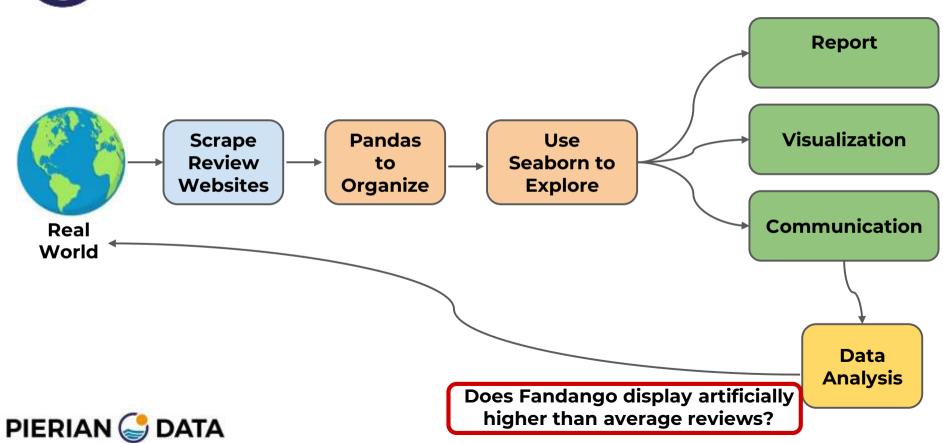












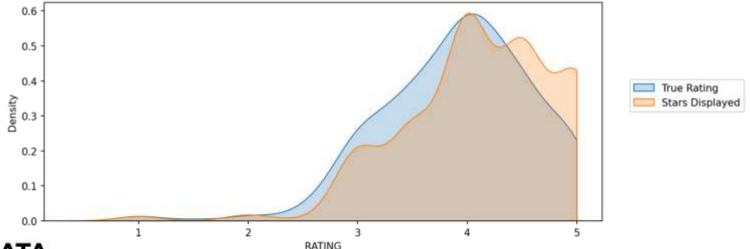


- Fandango has two ratings:
  - STARS
    - Rating in stars 0-5 displayed on their website's HTML.
  - RATING
    - Actual true rating numerically shown on movie's page.





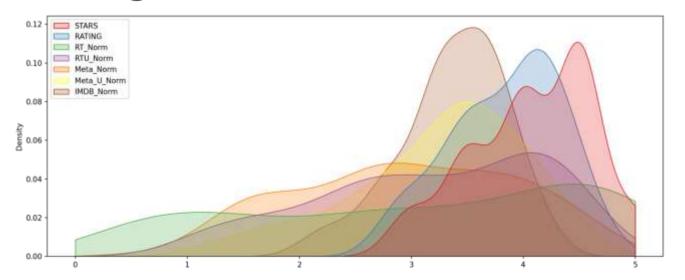
- Fandango has two ratings:
  - First we will compare these ratings to check for discrepancies.







 Then we'll compare Fandango's ratings to other rating website scores:







 Let's have an overview of the project exercise notebook!





# Capstone Project Solutions - Part One





# Capstone Project Solutions - Part Two





# Capstone Project Solutions - Part Three

