

**No One Ever Said  
“Don’t judge a book  
by its features”**

**By Kristina Barounis**

# **1. The Outline**

## **Data Sources**

---

### **New York Times API**

- For books that were on any NYT best selling list between 2017 and the present

### **Web scraping Goodreads**

- For books that were not on an NYT list
- For all features



## Features & Observations

---

### Scraped

- Title
- Author
- Rating
- Genre
- Publisher
- Publish date
- Number of pages

### Engineered

- Series (Y/N)
- Top author (Y/N)
- Top 5 publishing company (Y/N)
- Month of publishing

### Result

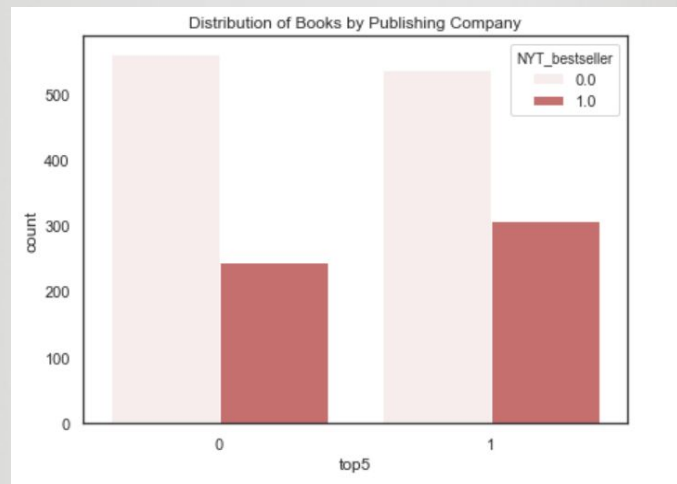
- Total of 37 columns in the dataset
  - Mostly categorical
  - 1 continuous: rating
- 1646 observations
  - 551 bestsellers
  - 1095 non-bestsellers

# How important are the top 5 publishing companies?

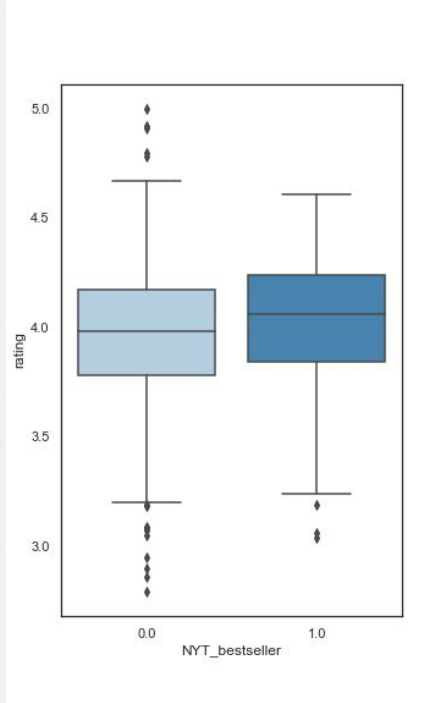


*Of the 551 bestselling books in the data set, 307 were published by the top 5...*

*But they also only publish 6% more bestsellers than everyone else*



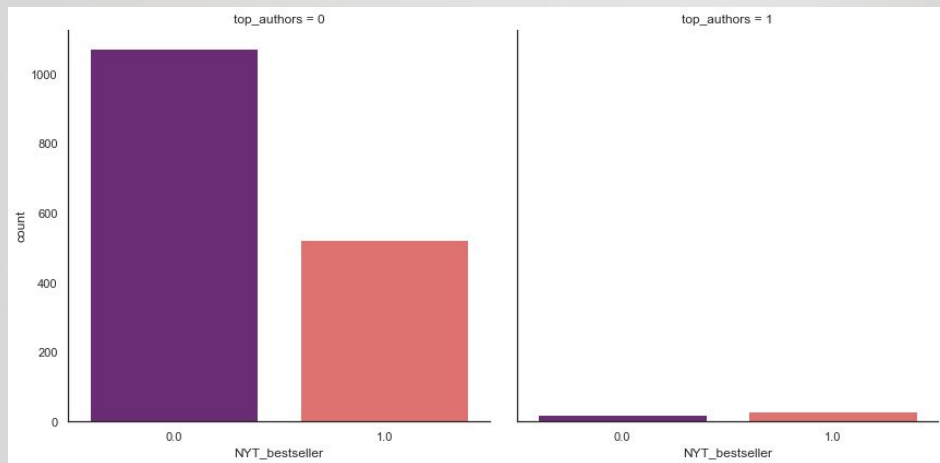




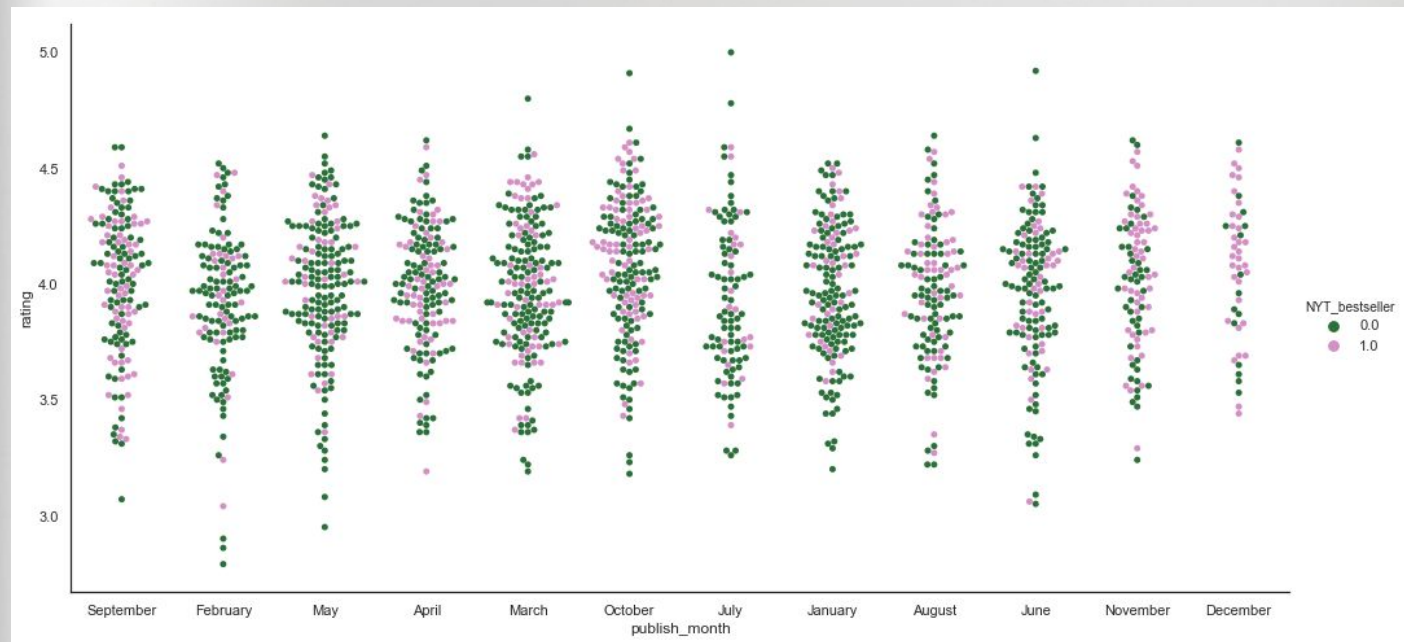
*Average rating for  
bestsellers is slightly  
higher - but this  
could be due to the  
“NYT stamp of  
approval”?*

***Forbes highest earning authors  
2017 and 2018:***

- J. K. Rowling
- James Patterson
- Jeff Kinney
- Dan Brown
- Stephen King
- Nora Roberts
- John Grisham
- Paula Hawkins
- E.L. James
- Danielle Steel
- Rick Riordan
- Michael Wolff



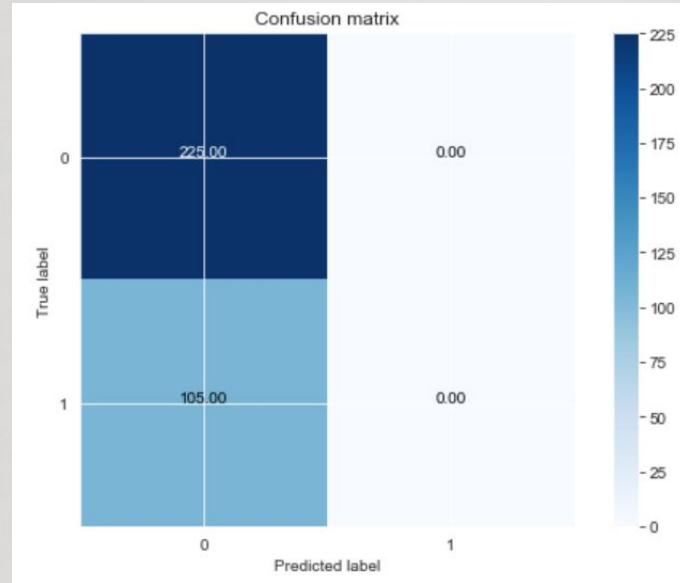




## **2. The First Draft**

## Baseline Model: Dummy Classifier

- ◆ 68% accuracy by picking the most frequent class, i.e. not a best seller



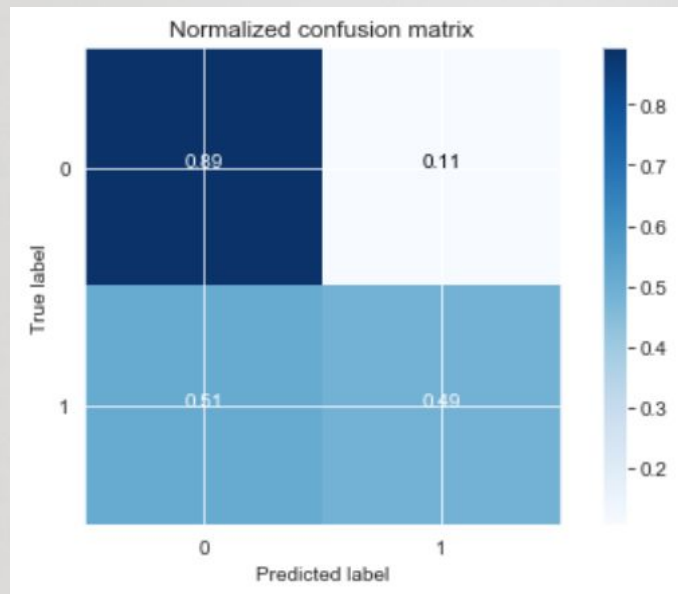


# **3.**

# **The Final Draft**

## Final Model: Logistic Regression

- ◆ 75% accuracy
- ◆ Default hyperparameters turned out to be optimal
  - ◆ C: 1 ( $C=1/\lambda$ )
  - ◆ Penalty: L2 (Ridge)



# The CliffNotes

Positive - higher likelihood	Negative - lower likelihood
Top authors	Horror
Politics	Science fiction
Publishing in December	Fantasy
Biographies	Short stories
Publishing in November	Fiction
Publishing with Penguin Random House	Young adult



## Ready for publishing?!

---

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>- “The Institute” by Stephen King<ul style="list-style-type: none"><li>- Not a series</li><li>- 4.36 rating</li><li>- Top author</li><li>- Published September</li><li>- Not published by a top 5 company</li><li>- Horror genre</li></ul></li><li>- Correct!</li></ul> | <ul style="list-style-type: none"><li>- “Double Down: Game Change 2012” by Mark Halperin &amp; John Heilemann<ul style="list-style-type: none"><li>- Part of a series</li><li>- 3.87 rating</li><li>- Not top authors</li><li>- Published November</li><li>- Published by Penguin</li><li>- Politics genre</li></ul></li><li>- Incorrect</li></ul> |
|---|--|