

A Publisher Dilemma

Divya Uppal

Feb 23, 2022

The standard publishing workflow for journal manuscripts



Author selects a journal



Author prepares manuscript



Author submits manuscript



Publisher places manuscript into peer review & revision



Publisher accepts or rejects manuscript



Publisher offers final revisions for the manuscript



Publisher places manuscript into copyediting and proofreading



Publisher publishes the finalized work

Submittable ^D

Project Goal

Develop a model to predicts book rating depending on Author Past Performance. Non Goal: Content of the manuscript

Target: Rating of the Book

Author Features:

Average Rating	Number of Followers
Year of Birth	Percentage Presence
Country of Birth	(Number_Rating)*(Number_Review)
Number of Rating	Number of Review
Distinct Work	

The Process

lever en les

01

Gather Data

02

EDA

03

Feature Engg

04

Final Model

goodreads

Meet your next favorite book.

01

Gather Data

The Data

Rate this book ****

Best Children's Books

Cast your vote for the best children's books.

(If you love children's books, here's some groups you can check out: Caldecott books, Newbery books,)

All Votes Add Books To This List Where the Wild Things Are Want to Read by Maurice Sendak *** 4.22 avg rating - 906,753 ratings Rate this book **** score: 114,640, and 1,173 people voted The Very Hungry Caterpillar Want to Read by Eric Carle ★★★★ 4.30 avg rating — 447,153 ratings Rate this book **** score: 108,872, and 1,118 people voted The Giving Tree Want to Read by Shel Silverstein Rate this book ★★★★ 4.37 avg rating — 1,004,542 ratings **** score: 106,239, and 1,090 people voted Green Eggs and Ham Want to Read by Dr. Seuss *** 4.30 avg rating - 691,991 ratings Rate this book **** score: 98,713, and 1,025 people voted Goodnight Moon Want to Read by Margaret Wise Brown *** 4.29 avg rating - 338,036 ratings Rate this book **** score: 79,793, and 826 people voted Charlotte's Web Want to Read by E.B. White

** * * * 4.18 avg rating - 1,600,438 ratings

core: 74 244 and 784 people voted



THE #1 CRYPTO IRA

MAURICE SENDAK'S FOLLOWERS (1.756)

PLATFORM IN AMERICA

ITRUSTCAPITAL

Maurice Sendak

in Brooklyn, New York, The United States

June 10, 1928 May 08, 2012

Arts & Photography, Children's Books, Science Fiction & Fantasy William Blake, Antoine Watteau, Francisco Gova, Winsor McCav ...more

Maurice Bernard Sendak was an American writer and illustrator of children's literature who is best known for his book Where the Wild Things Are, published in 1963. An elementary school (from kindergarten to grade five) in North Hollywood, California is named in his honor.

Sendak was born in Brooklyn, New York, to Polish-Jewish immigrant parents, and decided to become an illustrator after viewing Walt Disney's film Fantasia at the age of twelve. His illustrations were first published in 1947 in a textbook titled Atomics for the Millions by Dr. Maxwell Leigh Eidinoff. He spent much of the 1950s working as an artist for children's books, before beginning to write his own stories.

MAURICE SENDAK'S BOOKS

Average rating: 4.21 · 1,167,571 ratings · 22,374 reviews · 195 distinct works • Similar authors

Where the Wild Things Are *** 4.22 avg rating - 906,679 ratings - published 1963 - 142 editions

Rate this book

Chicken Soup with Rice: A Book of Months ** * * 4.23 avg rating - 30.679 ratings - published 1962 - 33 editions

Want to Read

Combine Editions

In the Night Kitchen

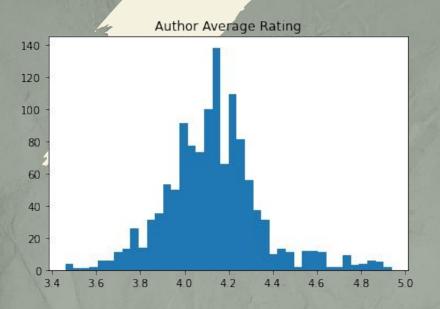
em lue porar men en _ eurfrem og un abourèr par ngefr flaven ilm su aven em lue porar men en _ eurfrem cu um aboute pe - me figor y w - lue novar of dufum cui - abourer pour for feaver by in su avega - me fyr y - One porar en en de

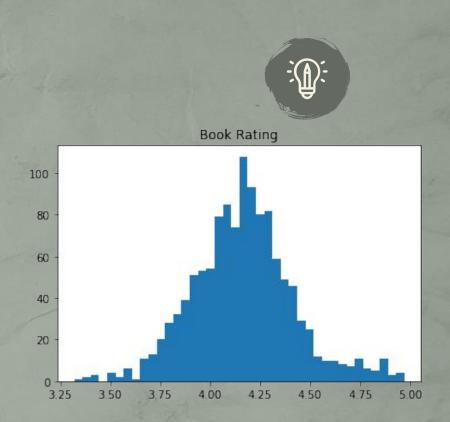


02

EDA

Data Distribution





Correlation Matrix

- 0.4

-0.2

0.0



book_rating -	1	0.71	0.073	0.05	-0.044	0.054	1
author_average_rating -	0.71	1	0.16	0.13	-0.03	0.12	
authot_no_rating -	0.073	0.16	1	0.94	0.054	0.71	
author_no_review -	0.05	0.13	0.94	1	0.068	0.87	
author_distinct_work -	-0.044	-0.03	0.054	0.068	1	0.04	
author_followers -	0.054	0.12	0.71	0.87	0.04	1	
	book_rating -	author_average_rating -	authot_no_rating -	author_no_review	author_distinct_work -	author_followers -	

Strongest Feature correlation*:

- Author Average rating: 0.71
- ☐ Author No of Rating: 0.073
- ☐ Author No of Followers: .054

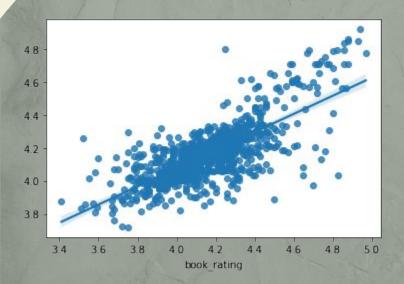


eufum

03

Feature Engineering

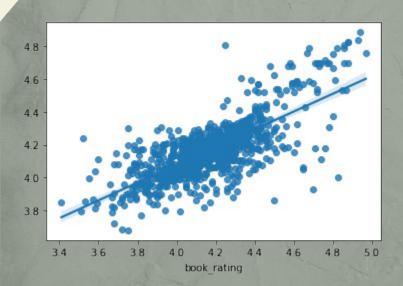
Initial Model



- Feature Engineering
- High multicollinearity in data
- Many insignificant features
- Author Distinct work is negatively correlated to book rating

R2 .4855 MAE = .1156

Final Model



Features:

- Square Author Average Rating
- Number of Rating
- Number of Reviews
- Interaction between Rating & Review

R2 = .4914MAE = .1130

em lue porar um abourer pay agefr feaver ila su avey em lue poran _ enfrem a me for y w - luce novar en eurfran cui - abourer pour fr feaver - me far y - lue novan

you y

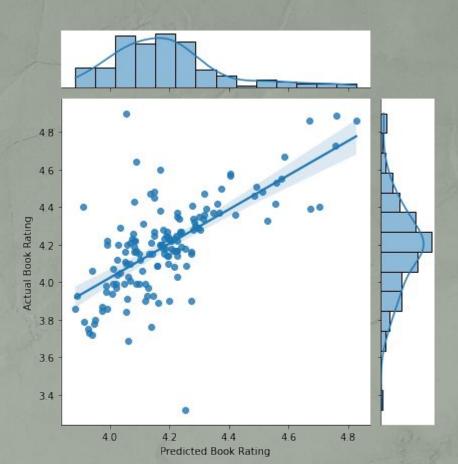
eufren c



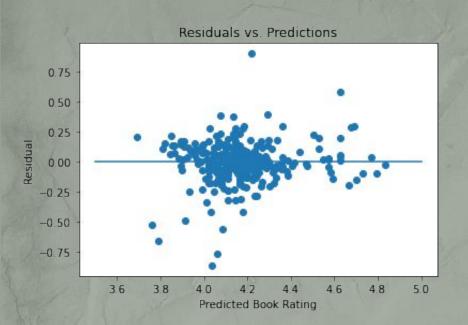
04

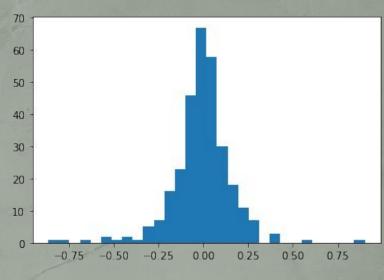
Final Model

Model Performance



Residual Plot





Performance

Author Rating	Author No Rating	Author No Reviews	Book Rating	Predicted Rating
4.3	556616	37639	4.3	4.294747
4.14	1344	565	4.6	4.179611
4.04	20271	1416	3.99	4.098574
4.33	10310268	402766	4.35	4.235018
3.93	881114	37679	3.98	3.985006

Future Work

- Acquire Author Reviews from different websites
- Use NLP to measure sentiment in Reviews
- Analyse text available in Manuscript
- Incorporate Sales Data

