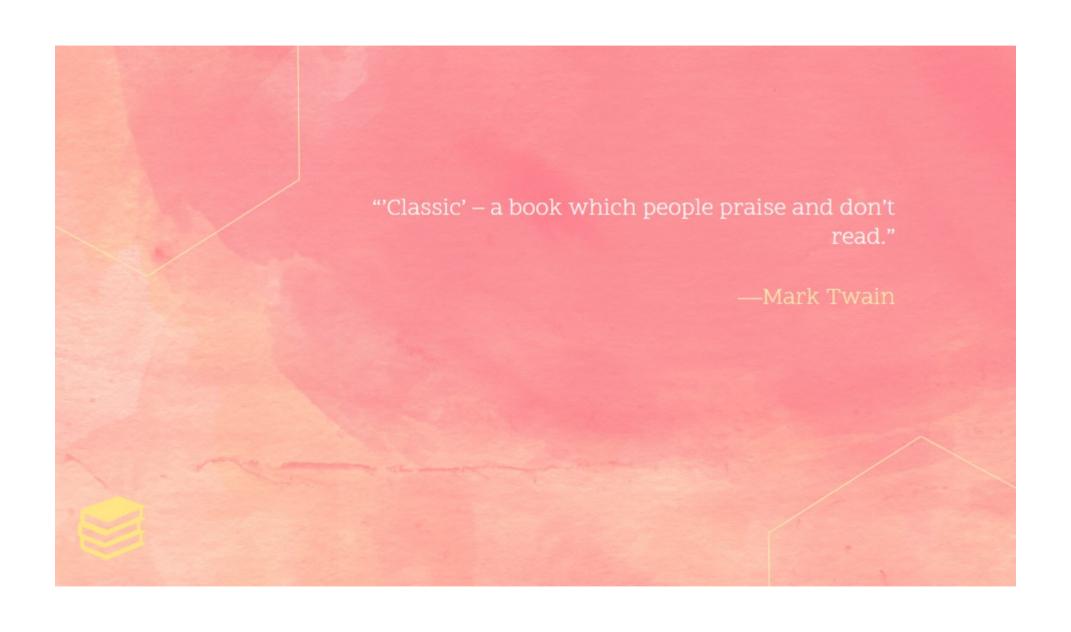
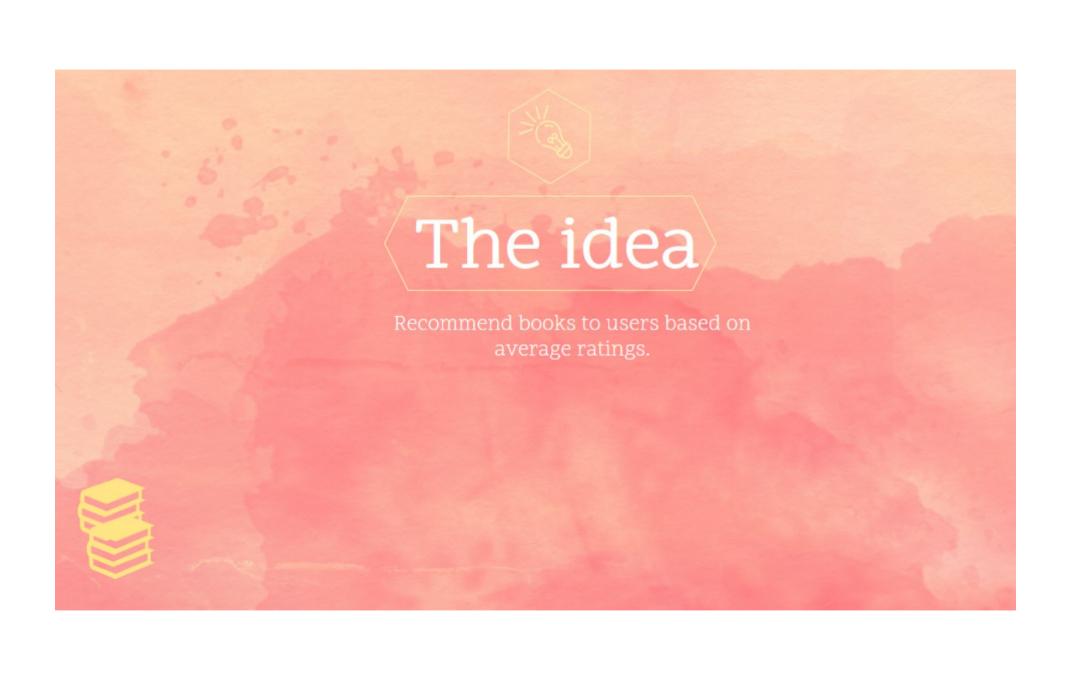


Data Analytics Bootcamp Ironhack, Berlin Final Project, March 2021 Sybille Kiziltan









The Data

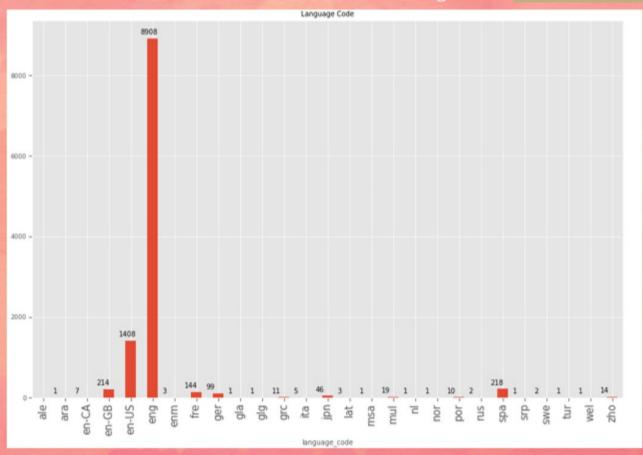
df.head()												
	bookID	title	authors	average_rating	isbn	isbn13	language_code	total_pages	ratings_count	text_reviews_count	publication_date	publisher
bookID												
1	1	Harry Potter and the Half-Blood Prince (Harry \dots	J.K. Rowling	4.57	0439785960	9780439785969	eng	652	2095690	27591	9/16/2006	Scholastic Inc.
2	2	Harry Potter and the Order of the Phoenix (Har	J.K. Rowling	4.49	0439358078	9780439358071	eng	870	2153167	29221	9/1/2004	Scholastic Inc.
4	4	Harry Potter and the Chamber of Secrets (Harry	J.K. Rowling	4.42	0439554896	9780439554893	eng	352	6333	244	11/1/2003	Scholastic
5	5	Harry Potter and the Prisoner of Azkaban (Harr	J.K. Rowling	4.56	043965548X	9780439655484	eng	435	2339585	36325	5/1/2004	Scholastic Inc.
8	8	Harry Potter Boxed Set Books 1-5 (Harry Potte	J.K. Rowling	4.78	0439682584	9780439682589	eng	2690	41428	164	9/13/2004	Scholastic

- 11.123 books
- Features
 - title, isbn, author, rating, average rating, language, number of pages, publication data, publisher



Exploratory Data Analysis

Most of the books in the dataset written in english



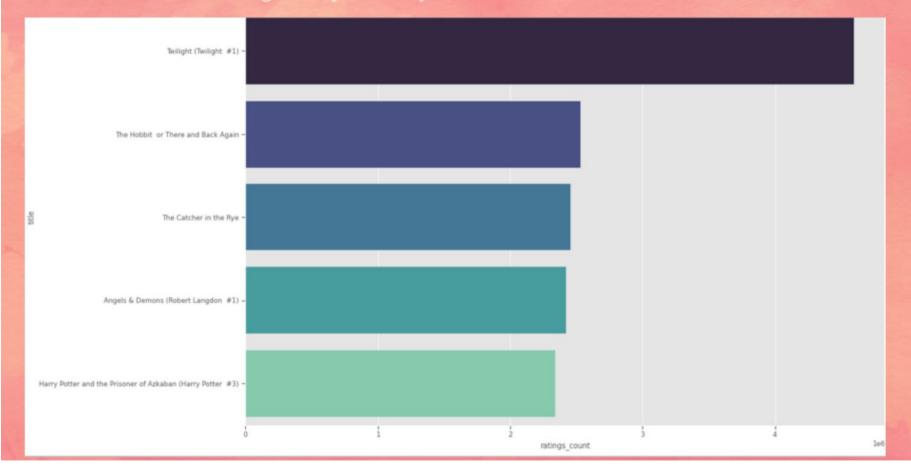
Recommendation system makes mostly sense for english books



Exploratory Data Analysis

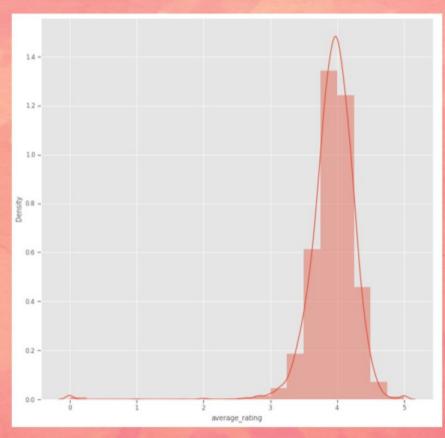


most rated book: "Twilight", Stephenie Meyer

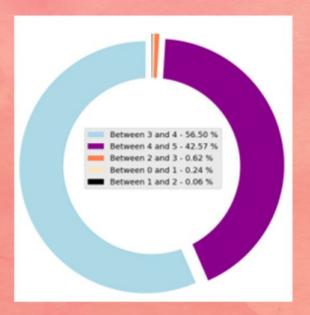


Exploratory Data Analysis

How are the ratings distributed?







- Most of the ratings scatter around 4
- 56.5% are between 3 and 4
- 42.57% are between 4 and 5

The Model



KMeans clustering

Finding groups in the data, to find relationships between rating counts and average rating

Clusters

7

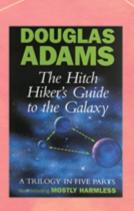


Recommendation Engine

The recommendation system works with the algortihm of K Nearest Neighbors (KNN)

How does it work?

Type in the book you like and get recommendations of five other books you may like.



[318]: book_rec("The Hitchhiker's Guide to the Galaxy (Hitchhiker's Guide #1)")

If you like:

The Hitchhiker's Guide to the Galaxy (Hitchhiker's Guide #1)

we recommend you also the following five books:

Cat Breaking Free (Joe Grey #11)

A Life in Letters

Nabokov's Pale Fire: The Magic of Artistic Discovery

Selected Speeches and Writings

Return of the Straight Dope

The Beleaguered City: The Vicksburg Campaign





Special thanks to Jose for sending me the article which nade me do this project, to Raul for his help during this week and to Marcus for sharing the breakoutroom and music with me thanks to Flo and the rest of teaching team for the