Harry Potter Recommendations





By: Aksha





Table of contents

O1 Context

My Problem. My
Hypothesis

O4 Improvement

Places of Improvement

02 Plan

My Plan of Action

05 Questions

03 Progress

What I did.













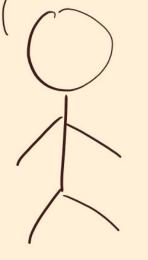


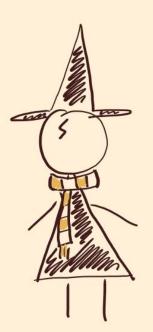






what Book should 1 Read?









What's your fow ownite HP.
Book?
And Why?



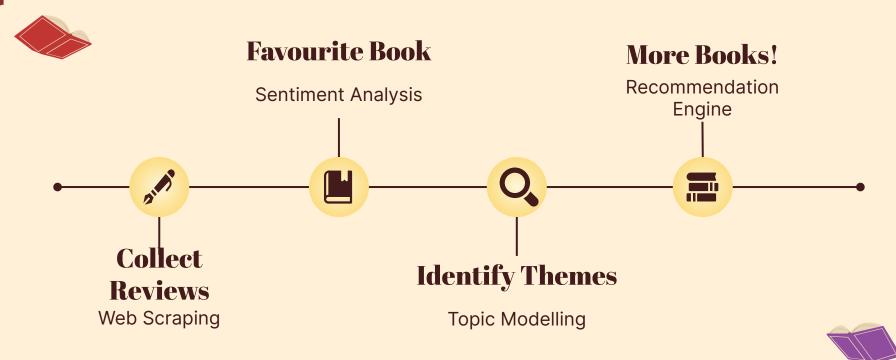




Plan



A timeline always works fine









What I did

A timeline always works fine







(1) Review Collection



Web Scraping

Book | Reviews | Rating



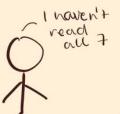


Assumption

7 Reviews for every person









A timeline always works fine



Favourite Book

How much do you like the book?

Sentiment Analysis







(2) Sentiment Analysis





C*****

While this is a good piece of fiction, the spiritual landscape in which it takes place REALLY has me taking a second look at this series.



D*****

Come along with me on my re-read of the epically magical series "Harry Potter".



T*****

"Nitwit! Blubber! Oddment! Tweak! Thank you!"





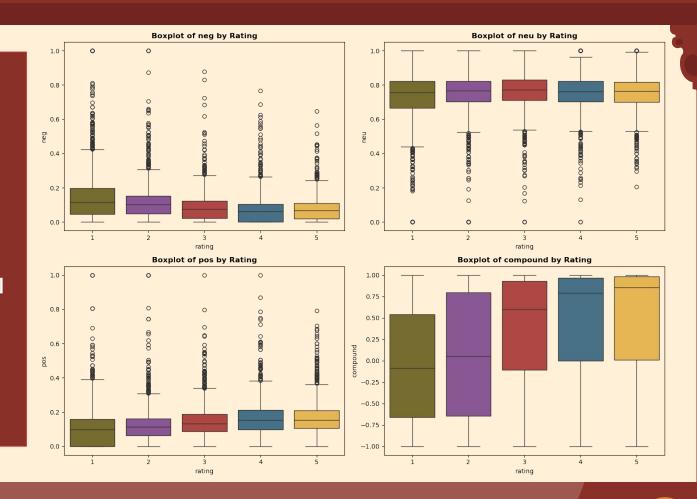
VADER Polarity Scores

neg → [0,1]

neu → [0,1]

pos → [0,1]

compound → [-1,1]









Voldemort

2 reviews 988 followers





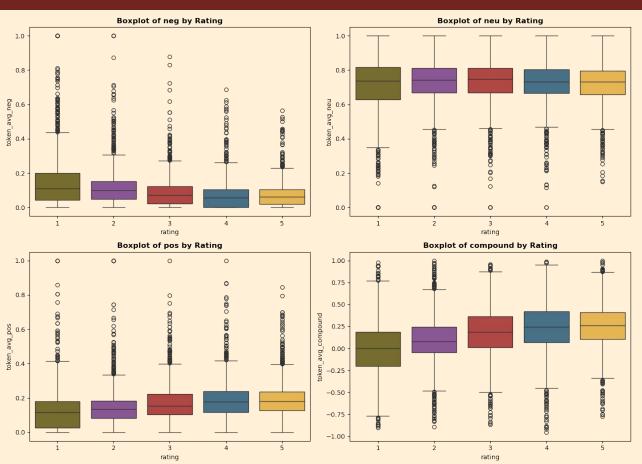
August 15, 2013

This is a disgrace to all pure bloods. My head looked quite dashing on that strange professor's head.. If only I could have extended my stay. Harry Potter.. This is not over yet.

9,266 likes · 34 comments







- Tokenise (Sentences)
- Add Words to Lexion



A timeline works fine



Favourite Book

How much do you like the book?

Sentiment Analysis







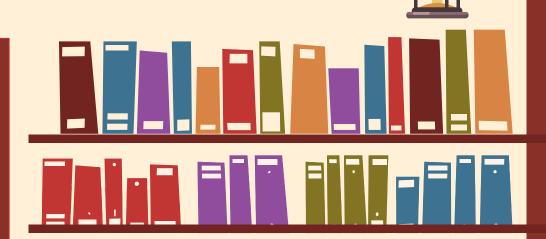
(3) Topic Modelling

Latent Dirichlet Allocation (LDA)

- Looks at all the documents (reviews)
- Identifies which topics there are
- Identifies how many topics there are

PyLDAvis (Visualise!!!!)

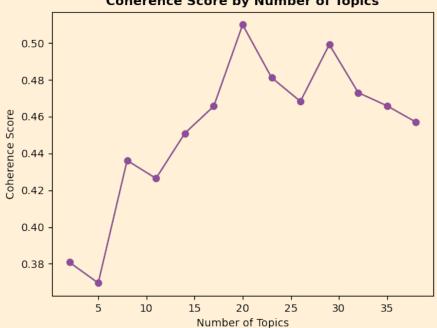
- **Topic Circle:** size = importance
- **Distance:** how closely related
- **Relevance:** helps us what the topic is about





Coherence Score

Coherence Score by Number of Topics

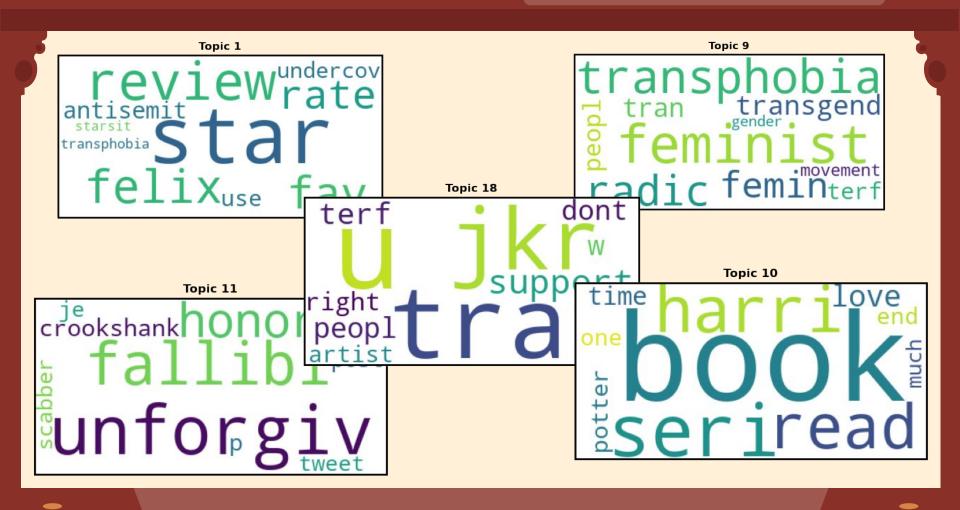


- **Measures Interpretability of Topics**
- Many different ways to calculate
- **High score = Good**





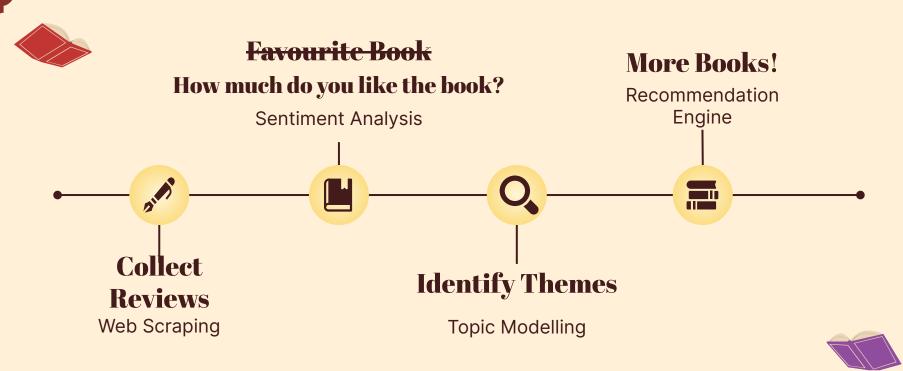
Note: Tokens = Words, not Sentences here



What do I have?

Review	Web Scraped	Data Collected From GoodReads
Sentiment Label	Sentiment Analysis	Used VADER to get a polarity score, then used the score to label positive, negative, neutral
Topics	Topic Modelling	Used LDA to get topics for each review
Other	Web Scraped	More data collected from GoodReads: Ratings Likes Images

A timeline works fine





(4) Improvements







Other Languages; Typos; Contractions



Bigrams/Trigrams

Use bigrams or trigrams instead of word tokenisation for modelling.



More Data

Use more data for better results.



Questions

This is RIDIKULIS! Just give me a book





CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon** and infographics & images by **Freepik**

