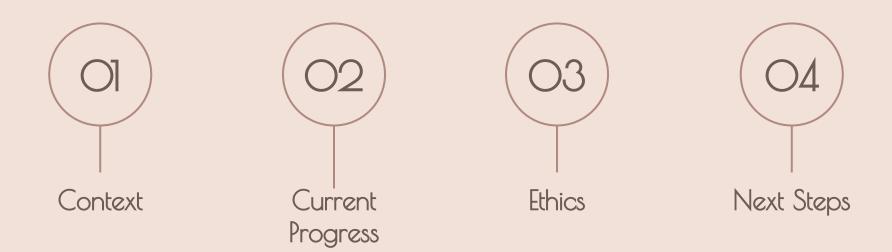
Algoshow By: Akshara Shukla & Deyna Baeva

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Context

Context

Do you want to discover your next favourite tv show personally curated for you, reducing the search time? AlgoShow will cut down the scrolling time by 80% and suggest your top 3 episodes just by a piece of text.

It's raining today The text gets processed through our classification model and it's sentiment is classified. The top 3 episodes are recommended to the user based on the sentiment. Episode 1 - Show Name Episode 2 - Show Name Episode 3 - Show Name

User enters a text on the search

bar on our software.

Here is a link to our <u>infographics</u>.

Technologies



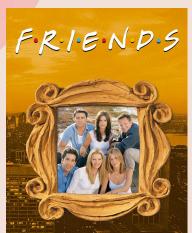




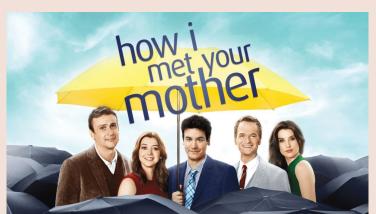


Hugging Face Streamlit

Our Personalized Dataset of TV Shows

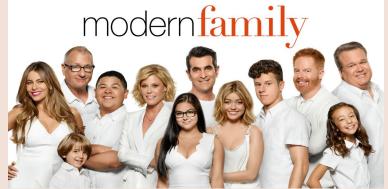


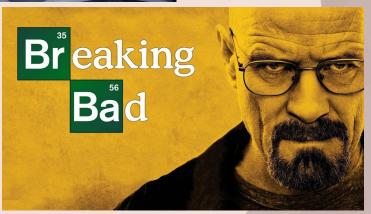












O2 Current Progress



Status

- Found suitable datasets.
- Applied sentiment analysis on the episode summary.
- Saved the sentiment in a CSV file.



1	В	C
1	summary	label
2	Eddard Stark is torn between his fam	anger
3	While Bran recovers from his fall, Ne	neutral
4	Jon begins his training with the Night	fear
5	Eddard investigates Jon Arryn's murd	fear
6	Catelyn has captured Tyrion and plar	anger
7	While recovering from his battle with	anger
8	Robert has been injured while huntin	sadness
9	The Lannisters press their advantage	joy
10	Robb goes to war against the Lannist	sadness
11	Robb vows to get revenge on the Lar	anger
12	Tyrion arrives at King's Landing to tal	neutral

Final CSV File

O3 Ethics



Ethics

Transparency

- Delivering a report and presentation for the usability of the software
- Link to the legal streaming websites

Fairness

 Section explaining about inclusivity towards all individuals & not having a specific target person

Robustness

 Easy to follow user interface for target audience

Explainability

- GDPR compliant section explaining how we use the data entered by user
- Code accessible on github

Algoshow

NAME: Algoshow

©TICT DATF: December 13, 2022 2:19 PM

DESCRIPTION OF TECHNOLOGY

This software recommends episodes of different tv shows based on a single textual input from the user. It then suggests the user watch the episode on their most used streaming

HUMAN VALUES

Algoshow promotes human values by allowing all types of users. The target group of the application are students and millennials All cultures, individuals with different background are welcome to use this application.

TRANSPARENCY

Algoshow promotes transparency by:

- a. Documenting the development of the product b. Giving the code to be slightly open source for education purpose.
- c. Mentioning in the application about the usage of data. Algoshow doesn't store, sell or use user data in any possible way and follows the GDPR regulations.

IMPACT ON SOCIETY

wouldn't find otherwise.

a. Reducing the search time.



STAKEHOLDERS



- a. The developers (Deyna and Akshara)
- b. Al mentors (Simona and Qin) c. The users (students and millennials)

SUSTAINABILITY



Algoshow promotes sustainability by: a. Reusing Al models that have been trained on large datasets in order to reduce energy and training time. b. Created our on custom dataset with values only needed

HATEFUL AND CRIMINAL ACTORS

Algoshow positively impacts the society by:

b. Introducing users to new shows which they

c.A "nice to have" experience for users who don't want to spend hours searching.



Possible hateful and criminal actors for Algoshow would be:

a. If the model predicts the sentiment of the entered text input wrongly. In order to combact this, we are focusing on building a fine-tuned classication model with high accuracy. Based on the test results, the model can be upgraded in future versions.

DATA



The data used by Algoshow for recommending is: a. Developed with specific tv shows that have high watching rate for the first version of the application.

- b. The columns are also build using the state of - the - art models
- c. The data is stored on a safe local server.
- d. The data is taken from kaggle.

FUTURE



- The future uses of Algoshow would be: a. The people who want to reduce their search time and are looking for new shows by using a unique technology.
- b. In the scenario with multiple users active, I believe it would be neccessary for ensuring user input and hosted server more security.

PRIVACY



Algoshow ensures privacy by:

- a. Doesn't save user data by any means.
- b. There's no account made so the application doesn't focus on indivual rather on the context (text).



doesn't include or discriminate people in any way. Our dataset are diverse and have most watched tv shows with legal streaming website link.

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THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN, YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO







O4 Next Steps

Next Steps



Implement Sentiment Classification Model

Building a personalized CNN model



Extracting similarity scores between episode titles and the input text

Using content - based embeddings & finding similarity score

Thank You!

Questions?

Resources

- 1. <u>Data Preparation Script</u>
- 2. <u>Text Similarity Script</u>