Progress presentation

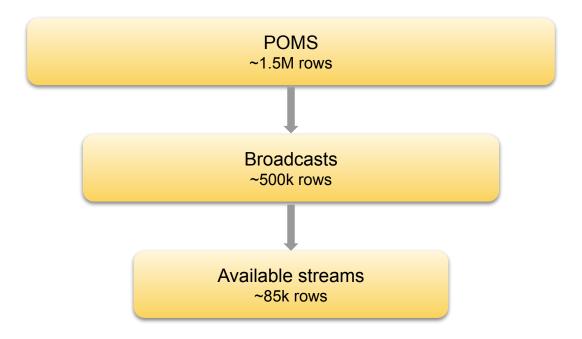
Enhancing the NPO Recommendation System with Metadata Eileen Kapel

1. Research questions

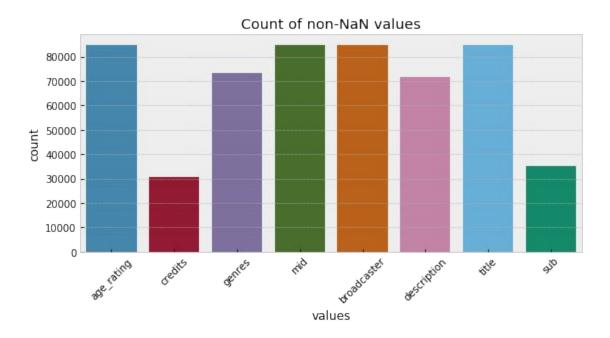
'Can content-based filtering using metadata enhance the current recommendation system of NPO Start which uses collaborative filtering?'

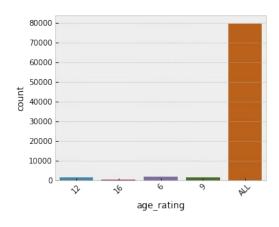
1. Research questions

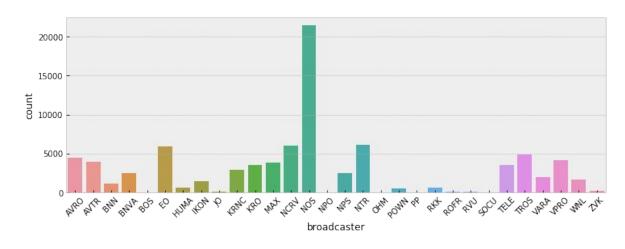
- Sub-questions
 - What is the current collaborative filtering performance?
 - How much can the recommendation system be improved by using different content-based filtering methods integrated with the current system?
 - Which metadata features improve the recommendation the most?

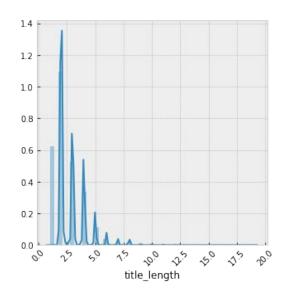


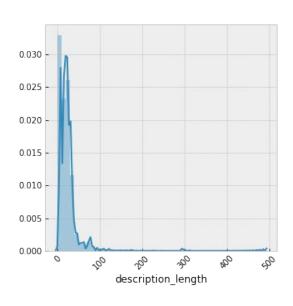
sub	title	description	broadcaster	mid	genres	credits	age_rating
888 wie kent de steden van europa en weet w	De slimste mens	Kennisquiz met een knipoog.	NCRV	NCRV_1616517	[(3.0.1.6, [Amusement])]	[(Freriks, Philip, PRESENTER), (Rossem, Maarte	ALL
None	NOS Jeugdjournaal	None	NOS	POW_00421885	[(3.0.1.1, [Jeugd]), (3.0.1.7.21, [Informatief	None	ALL
888 dit is eenvandaag. goedenavond. hij is al 	EenVandaag	O. a.: Milieudefensie roept banken op te stopp	AVTR	AT_2096527	[(3.0.1.7.21, [Informatief, Nieuws/actualiteit	[(van de Westelaken, Rik, PRESENTER)]	ALL

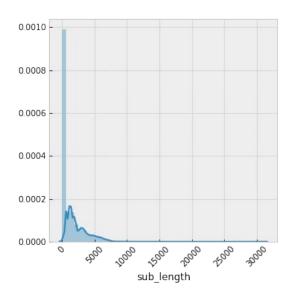








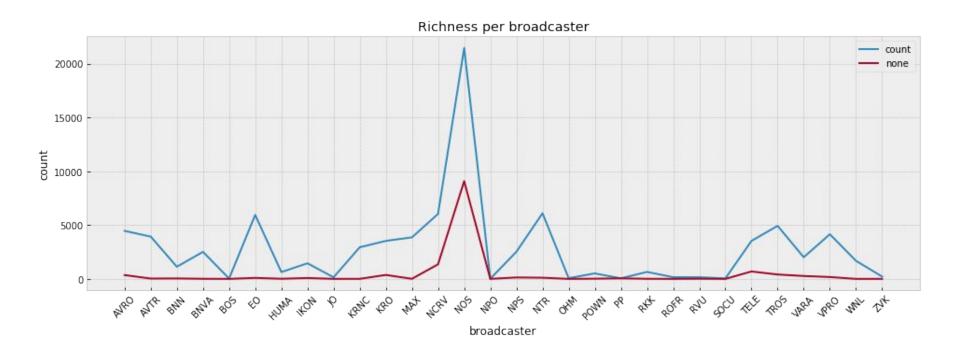




$$\bar{x} = 2.5, M = 2$$

$$\bar{x} = 20.9, M = 18$$

$$\bar{x} = 1030.9, M = 0$$



3. Achievements

Week	Achievements
1	Introduction section done. Pre-processed data.
2	EDA and data described. Investigated current performance. Investigated topic modeling on subtitles.
3	Literature read. Literature described and important parts highlighted.

4. Deliverables

Week	Achievements
4	Baseline algorithm was set up and evaluated. Data and literature section done.
5	Investigated integrating content-based filtering and collaborative filtering. Method section done.
6	Mid-presentation. Hybrid recommender system was set up.
7	A/B testing was set up.
8	Checked results of A/B testing. Experimented and tuned hyperparameters.
9	Checked results of A/B testing. Experimented and tuned hyperparameters.
10	Results section done.
11	Conclusion & discussion section done.
12	Thesis done.

5. The internship

- Data
 - Access
 - Correct subset
- Supervisors