FASTFILM

"We want to enable the user to utilize their own emotional state to browse their personalized movie recommendations faster and without external research."

This video is the capstone project report created by the participants of an *aggregate intellect* premium hands-on workshop. See https://ai.science for more details

2020



The Brains





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Data Scientist Product, NLP and UI Development.







- Movie Aficionado
- Watching time: 2h/day
- Age: 29
- 18 minutes with 50 titles



External Reference

20% of viewing time spent on browsing



Conventional Search

The user cannot browse by specific taste.

MARKET SIZE <u>54 million</u>



Our Data Journey

Filters



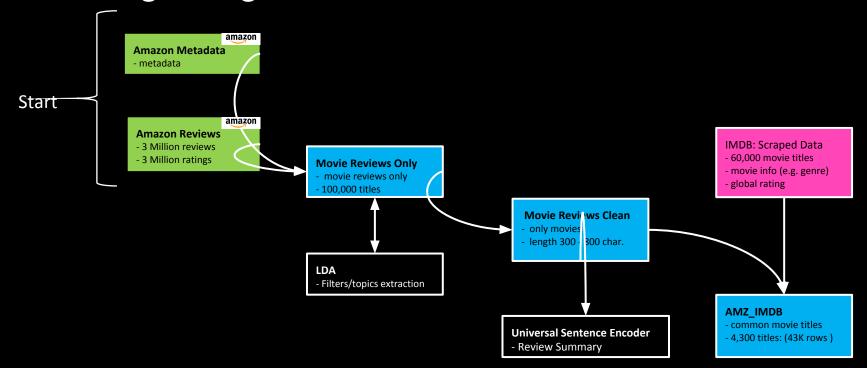
Movie Ratings

Aggregated

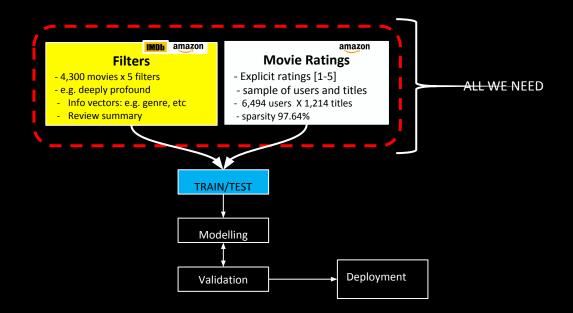
Info

Available Data
Data Wrangling
Scraping Data
Engineered Filters
Engineered Ratings

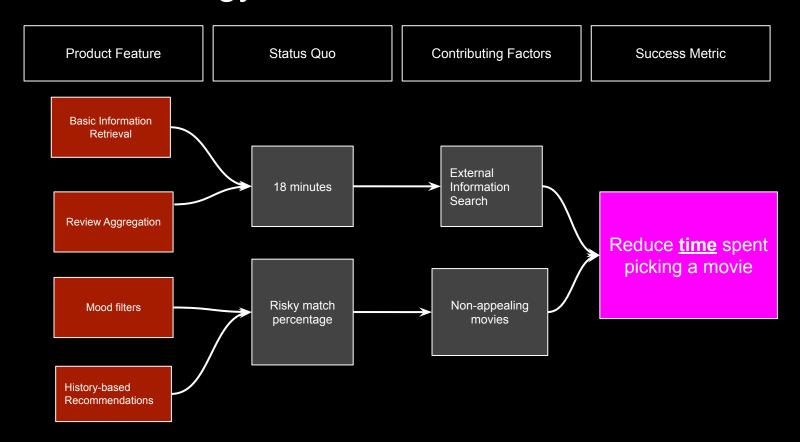
In the Beginning was Amazon Reviews



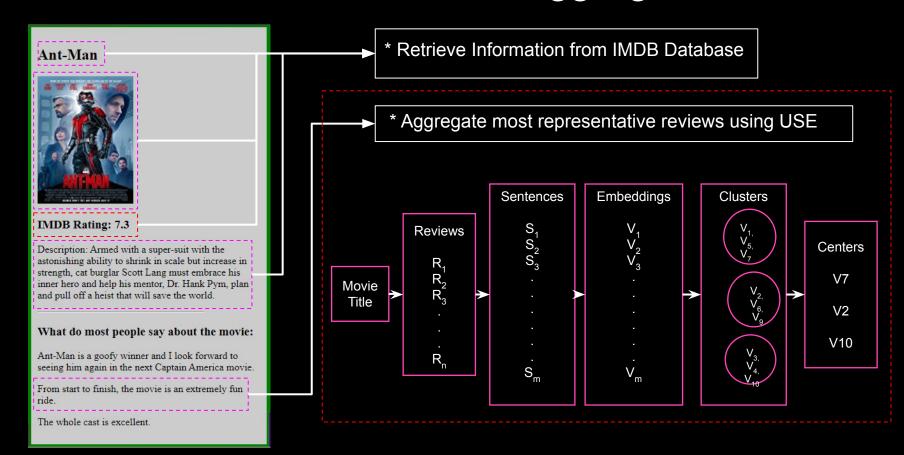
..and the Reviews Were Our Data



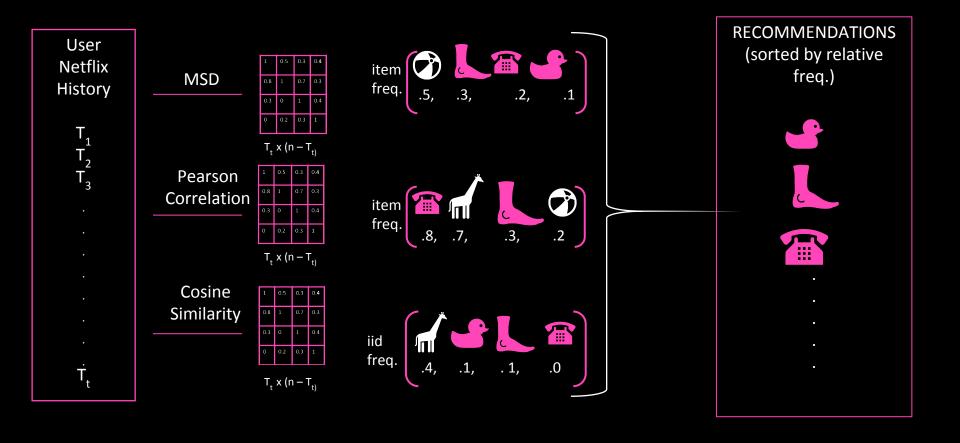
Product Strategy



Product Feature: Information Aggregation



Product Feature: Recommendations



Product Feature: Emotional Filters

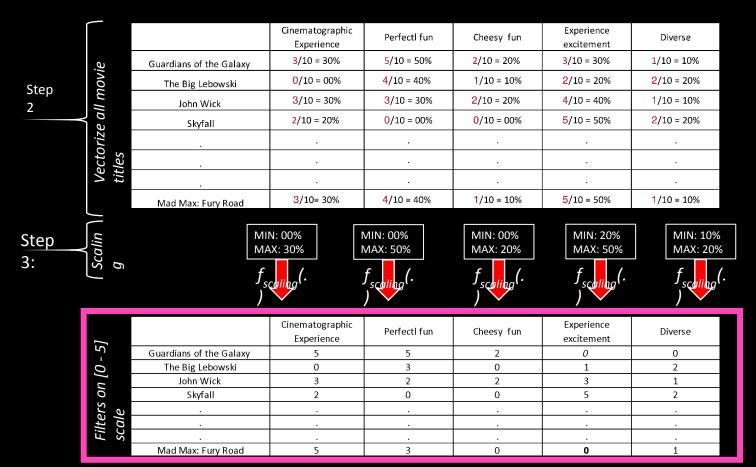
	"Emotional" Filters - Engineering Filter 1: Memorable		Filter 2: Good Music	Filter 3: Feel at the Scene	Filter 4: Goosebump	Filter 5: Heart Lifting Humor
		Look up words in reviews:	Look up words in reviews:	Look up words in reviews:	Look up words in reviews:	Look up words in reviews:
		["deep", "memorable", "happy", "poetic", "noble"]	["entertaining", "musical", "music", "score"]	["believable", "accurate", "correct", "likable"]	["special", "worth", "sexual", "mysterious", "dangerous"]	["dumb", "comic", "funny", "humorous, "hilarious", "clever", "witty"]
	review 1: Guardians of the Galaxy	0	1	0	1	0
	review 2: Guardians of the Galaxy	0	1	0	1	0
	review 3: Guardians of the Galaxy	1	0			1
S						
ωа	review 8: Guardians of the Galaxy	0	1	0	0	0
reviews	review 9: Guardians of the Galaxy	1	1	1	1	0
),	review 10: Guardians of the Galaxy	1	1	1	0	0

Step 2 Vectoriz

Step

Guardians of the Galaxy 3/10= 30% 5/10 = 50% 2/10 = 20% 3/10 = 30% 1/10 = 10%

Product Feature: Emotional Filters



Business Strategy

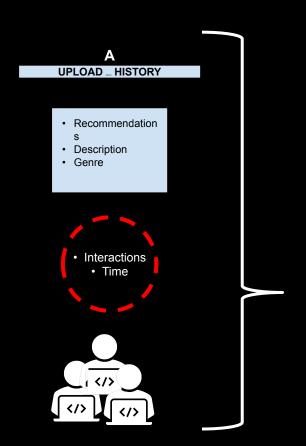
Revenue	Amount	
Users per month	20,000	
Subscription cost	\$1.00	
Total Revenue	\$20,000	



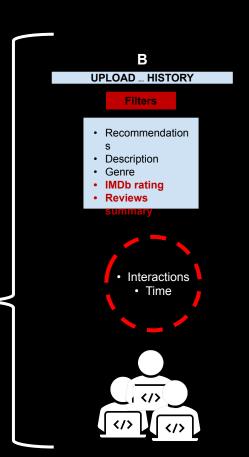
Cost	Amount
Google app	\$1,000
Cloud Server	\$100
Salaries	\$10,000
Total Cost	\$11,100

\$8,900/month

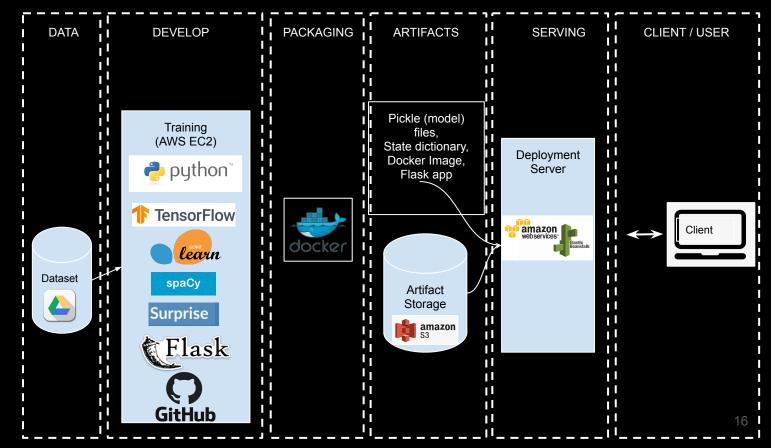
A/B Testing



Success Metric Reduce time it takes to pick a satisfactory movie



Packaging and Development



Learnings from Alpha & Beta Release: Behavioral Interview

User Segment	Time Spent	Selection	Ratings IMDb	Mood filters
Relaxed Users	0-5 min	Top Movies	Not important	No need
Picky Users	10-30 min	External Source	Very important	Prefered more diverse



The app has potential to save time to the both users



Tidy and clean UI is important



Both users want to display



Filters must be comprehensive

Future works

- A/B Testing, metric and evaluation of product
- Improve the Representative Reviews system
- Grow mood filters
- Expand Database to include more movies