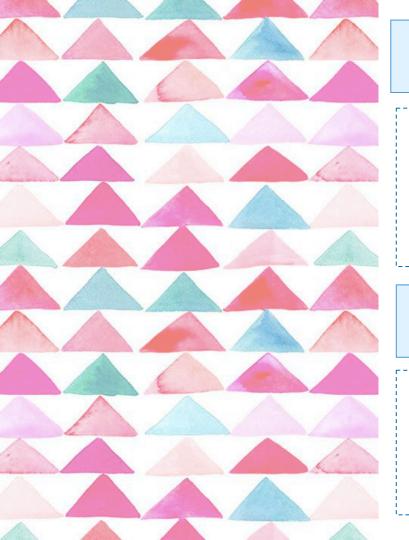
DEAR R/RELATIONSHIPS...

MALU DEE ~ MARCH 3, 2017



OBJECTIVES:

Make an app that gives users relationship advice

WHY?

- Privacy no need to post personal details online
- Get instant relationship advice from the app

DATA:

reddit.com/r/relationships

Questions

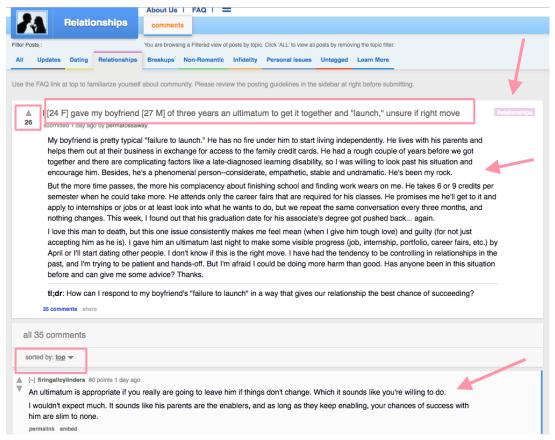
Answers

Titles

Scores

Flairs





TOOLS USED:

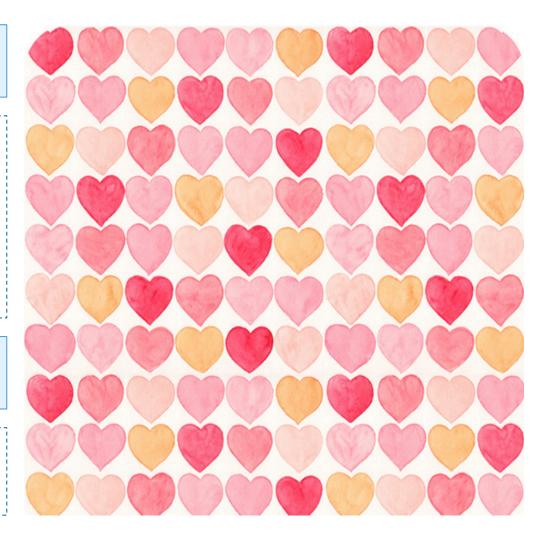
AWS

- scikit-learn
- Reddit API
- TextBlob
- MongoDB
- Gensim

Flask

DATA USED:

Approx. 35K documents



METHOD:

- 1. Build Flask app
- 2. Data from MongoDB
- 3. Fit TFIDF vectorizer on questions
- 4. Get user question from Flask app
- 5. Cosine similarity

(NARROW DOWN TO 500 BEST QS)

- 6. Fit and transform NMF to 20 topics
- 7. Cosine similarity
- 8. Find corresponding answers
- 9. Clean up answers/flairs

(NARROW DOWN TO 10 BEST Q+AS)

- 10. Sentiment analysis with TextBlob
- 11. Sort by subjectivity

(NARROW DOWN TO Y BEST ANSWERS)

- 12. Summarize with Gensim
- 13. Limit to one sentence answer

(ONE ANSWER)

14. Send answer to user

(DONE!)

DEAR R/RELATIONSHIPS...

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PLEASE ENTER YOUR RELATIONSHIP QUESTION BELOW, AND R/RELATIONSHIPS WILL TELL YOU WHAT TO DO (SUCCINCTLY).
PLEASE BE AS DESCRIPTIVE AS POSSIBLE!

Your a	DESTION:	
Type or pas	e your question here	
SUBMIT	MONSHIPS SAYS:	

DEAR R/RELATIONSHIPS...

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SUBMIT			
R/RELAT	TIONSHIPS SAYS:		

LIMITATIONS

NEXT STEPS

- Longer questions are better
- Common questions work better
- Some questions get strange answers

- Collecting more questions from Reddit
- Suggest posted questions for the user with NMF, links
- Improve method for suggesting answers

ANY (OTHER) QUESTIONS?

CONTACT INFO:

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