Reddit Thread Recommender

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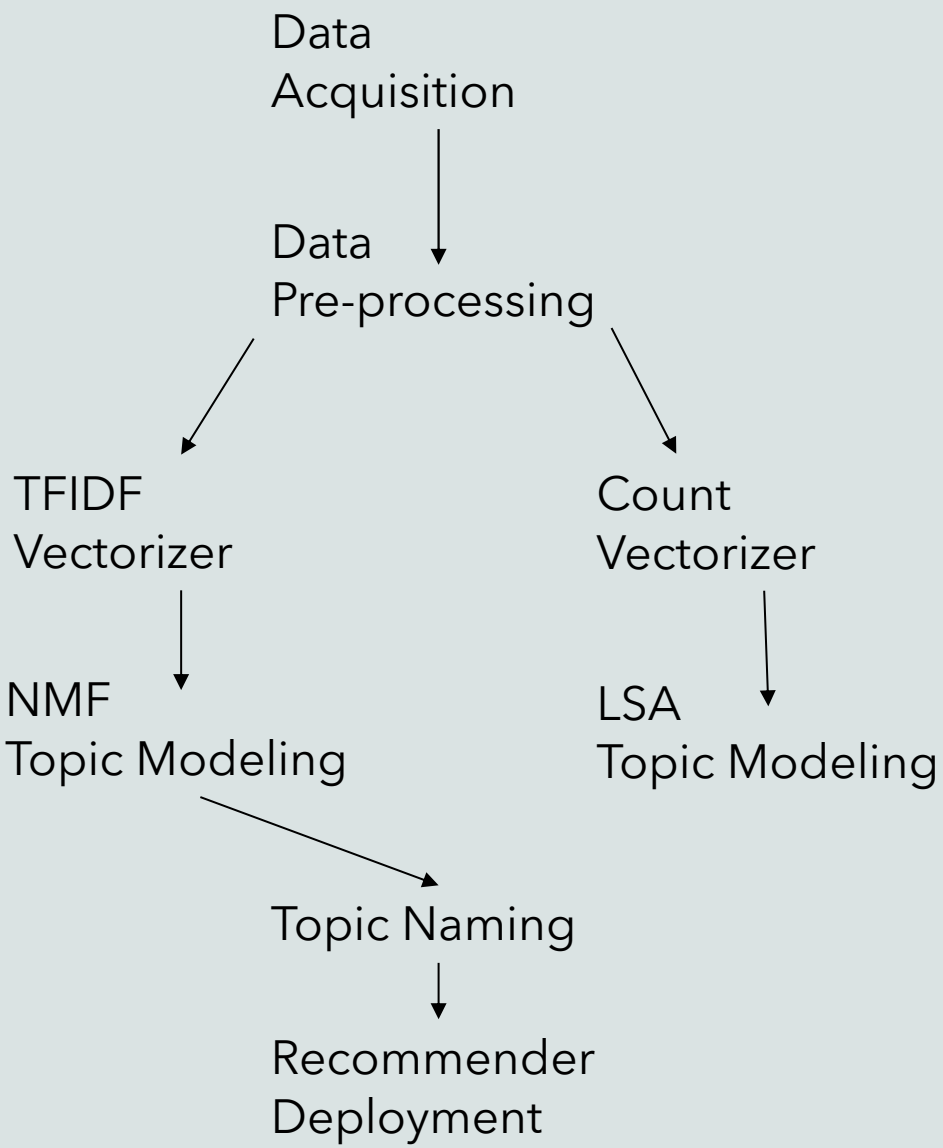
Goal

Build NLP unsupervised learning model

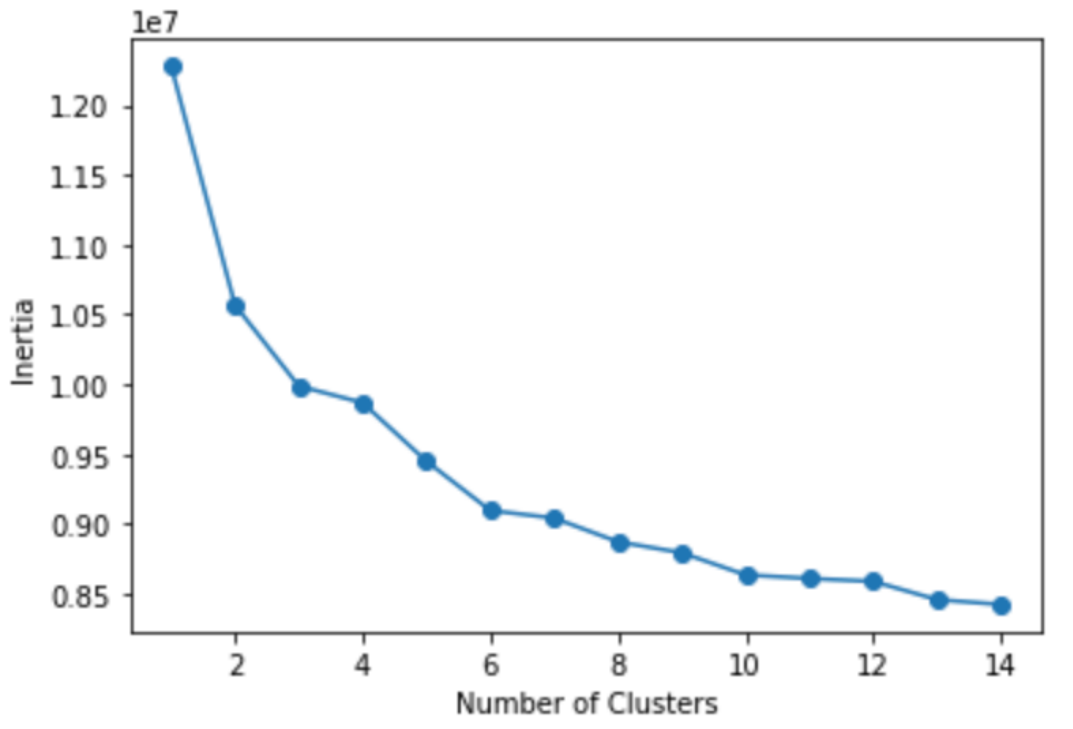
Create a recommender based on user input



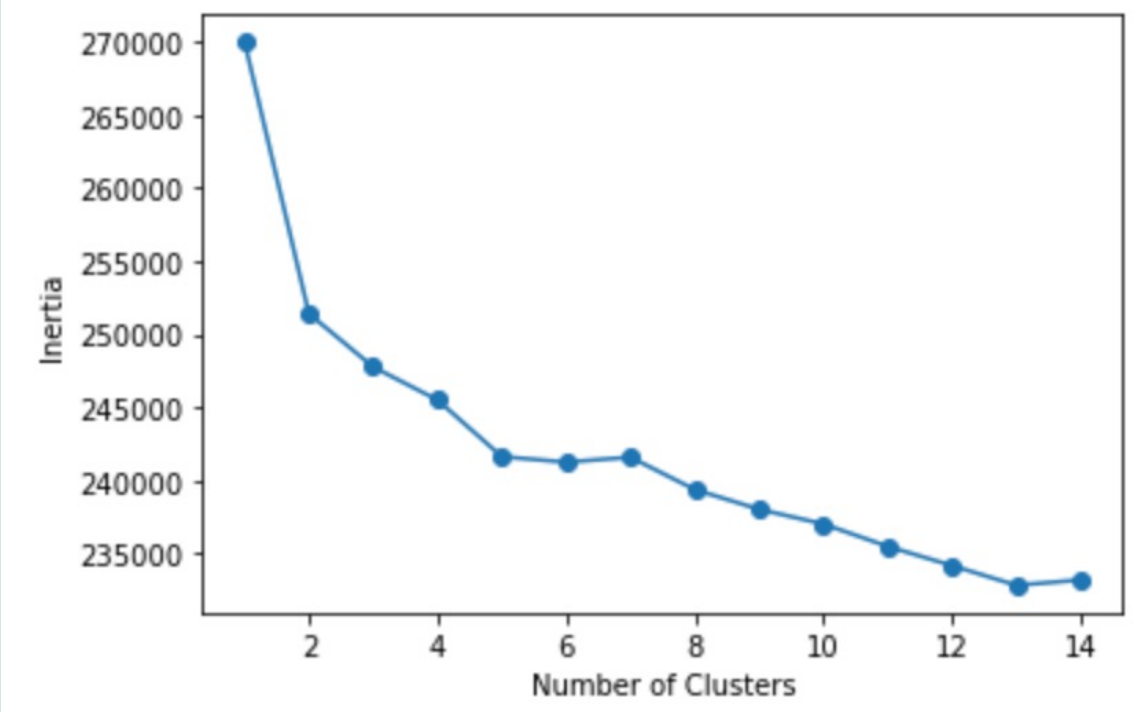
Workflow

- Data downloaded as .csv file
- Preprocessing using regex
- Scikit Learn NLP tools
- Streamlit app deployment via py script

Count Vectorizer Inertia



TFIDF Vectorizer Inertia



```
Topic  0
cum, cumc, cumcum, belgium, taiwan, fortnite, meow, koala, zamn, china


Topic  1
discordhtps, automaticaly, questions, bot, concerns, action, moderators, contact, performed, submision


Topic  2
click, models, make, money, learn, onlyfans, new, bevy, content, sexy


Topic  3
meow, fortnite, taiwan, belgium, koala, china, zamn, femboy, amogus, cat


Topic  4
meow, taiwan, belgium, koala, fortnite, zamn, femboy, china, amogus, models


Topic  5
youre, dont, cant, ratio, cringe, care, yo, sex, bitches, baka
```

LSA Topic Modeling

Some topics did not really make sense

Topic: ' NFT Buy/Sell General Discussion '
discordhtps, buysel, discusion, everything, live, thank, us, share, subreditmesagecomposetornft, submision

Topic: ' Onlyfans '
models, click, onlyfans, learn, bevy, directory, sexy, content, new, money

Topic: ' Moderator Channel '
discords, chanelhtps, fil, contactreditmods, aproved, formhtpsformsgleebzpvoxmnhaxc, alow, removed, doesnt, fi

Topic: ' NFT Theft '
luscious, godbye, preparing, strets, stole, ruin, prepare, lawyer, youi, theft

Topic: ' Random '
karma, however, contributions, postcoment, engage, automaticaly, combined, award, wait, ask

Topic: ' Crypto Discussion '
dont, game, im, buy, art, crypto, make, money, know, could

Topic: ' NFT Giveaway '
discord, fre, giveaway, chanel, adres, verify, drop, server, upvote, send

Topic: ' NFT Art '
links, submit, discordhtps, hashtags, coment, title, ad, alow, however, removed

Topic: ' Opensea '
latest, colection, everyonei, herehtpsopenseaiocolectionhelkity, zombie, kity, check, arts, leaving, opensea

Topic: ' Metamask '
metamask, key, want, ned, xcedaedcfebaefafeb, xabdbafefdaccbbcdfbe, xccdceffefbcfd, xdfcacbeefafbeccdef, xfeff
deskcomhcenusarticlesnfttokensinyourmetamaskwaleti

NMF Topic Modeling

Topics made more sense

Reddit NFT Thread Recommender

Welcome to my recommender system. Please choose a topic from the drop-down menu for several reddit link suggestions.

Select your topic:

Crypto Discussion


```
[
  0 : "https://old.reddit.com/r/Games/comments/rxb8cv/sega_promises_to_avoid_nfts_if_gamers_think_its_a/hrl4k18/"
  1 : "https://old.reddit.com/r/ethfinance/comments/rpgcip/daily_general_discussion_december_27_2021/hq4yyqn/"
  2 : "https://old.reddit.com/r/FuckNFTs/comments/tttebo/help_us_protect_the_fuck_nfts_sign_on_rplace/i32d5vx/"
  3 : "https://old.reddit.com/r/ubisoft/comments/rb3k84/we_must_stop_quartz_now_before_it_spreads/hnrk2f3/"
  4 : "https://old.reddit.com/r/g4tv/comments/qx5hqm/please_never_do_a_segment_on_nfts_again/hl887yw/"
]
```


Recommender App Deployment

Streamlit

Thank you