

MOTIVATION







DATA

Scrape data and API calling



DATA

Scrape data and API calling

EDA

Visualize the data and sentiment analysis







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Visualize the data and sentiment analysis

TOPIC MODELING

TF-IDF Vectorizer and NMF(15)









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REC-SYS

Take user's input and recommend the most relevant products











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DEPLOYMENT

Build streamlit app and deploy to share.streamlit







Jacob Franklin 2015 Hoffman Lane, Cabernet Sauvignon, Napa Valley

Pair this wine with:







Category: Cabernet Sauvignon Date Tasted: 7/28/2020 Country: USA Alcohol: 15.2%

95 Points

Gold Medal Exceptional

\$75
Cellar Selection



Black ruby color. Complex aromas of cinnamon potpourri, damson plum, black tea, carob, olive tapenade, and bay leaf with a round, vibrant, dryish medium-full body and a tingling, complex, long cumin, rose water, dark chocolate, and anise finish with moderate oak flavor. A bold, intensely complex Cabernet Sauvignon with huge aromatics of herbs and spices; exotic, conversation-worthy, and should be the centerpiece of the table.



Full Review BUY IT NOW



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Tasting Info

Fruity, Juicy & Smooth, Oaky, New Style: World, Rich & Full & Spicy & Complex cinnamon potpourri, damson plum, black tea, carob, olive tapenade, and Aroma: bay leaf cumin, rose water, dark chocolate, Flavor: and anise Sweetness: Dryish Now-3 years on its own and with Enjoy: food Rack of Baby Lamb, Steak & × Pairing: Potatoes, Beef Stew A bold, intensely complex Cabernet Sauvignon with huge aromatics of Bottom Line: herbs and spices; exotic, conversation-worthy, and should be the centerpiece of the table.

Cabernet Sauvignon



Cabernet Sauvignon is a variety that is the source of some of the world's most celebrated and longest-lived reds. Grown in many countries, it is most famous in Bordeaux, where it is the principal grape in red Bordeaux as well as in California – especially Napa Valley- where it is labeled by its varietal name.

Cabernet Sauvignon has aromas and flavors of black currant, cassis, black cherry and sometimes plum (in warmer regions or vintages). Quite rich on the palate, the variety is very tannic, giving its wines a bitter edge in their youth, but also providing the wines with great aging potential, with top flight examples drinking well for as long as four or five decades. Given their richness and flavor profile, wines made from Cabernet Sauvignon need to be paired

with rich red meats, such as steaks and roasts as well as game.

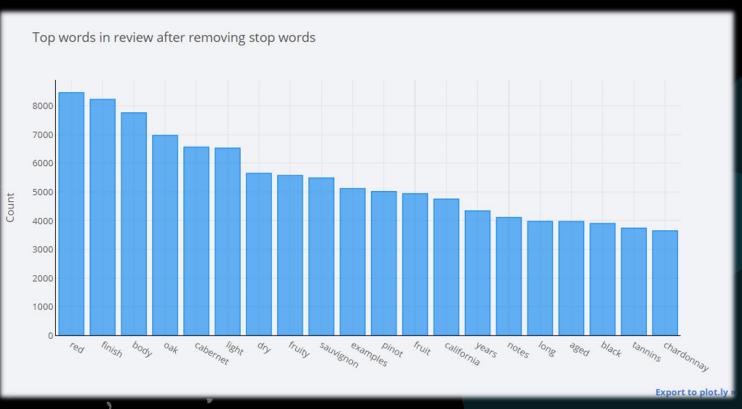
Besides France and California, other countries with warm growing regions also excel with Cabernet Sauvignon. These include the Maipo and Colchagua Valleys in Chile as well as the Bolgheri district, situated on the coast of Tuscany.



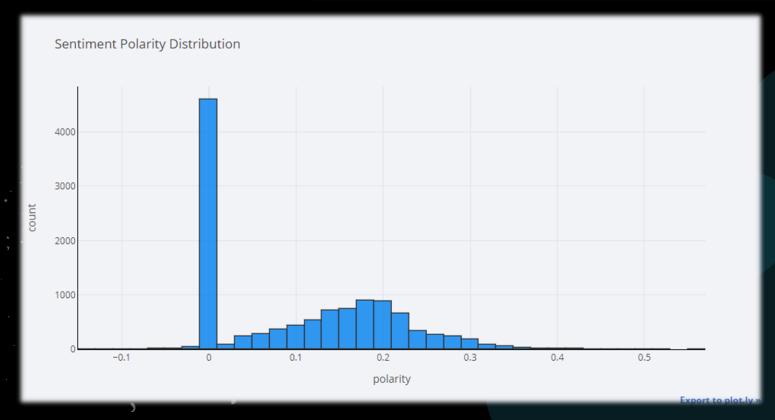
EDA and Sentiment Analysis



EDA and Sentiment Analysis



EDA and Sentiment Analysis



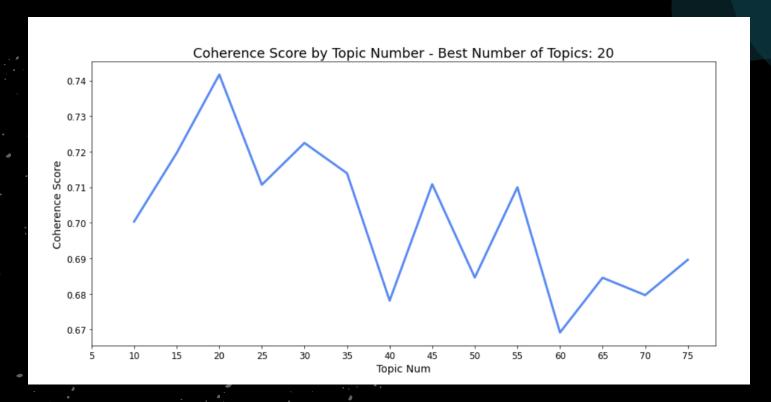
Topic Modeling

TF-IDF Vectorizer and NMF(15 components)



Coherence Scores

Coherence Scores



15 topics



15 topics

Based on type and flavor of alcohols Let's take a look at few topics



List of topics

- 1. Cheap, affordable, good value
 - 2. Bittering hop IPA
 - 3. White and spiced Rum
- Oaky, fruity Red blend and Merlot
- 5. Dried sour cherries flavored Pinot Noir
 - 6. Sweet and fruity cider
 - 7. Dry and oaky Chardonnay
 - 8. Non-smoky, sweet Rose
 - 9. Fruity Sauvignon Blanc
 - 10. Straight and flavored Vodka
 - 11 Whiskey (Bourbon and Scotch)
 - 12. Sweet, light, and corn beer
 - 13. Smooth and dry tequila
- 14. Cocktail mixers (ready-to-drink cocktails)
 - 15. Dry Gin



Cheap, affordable, good value

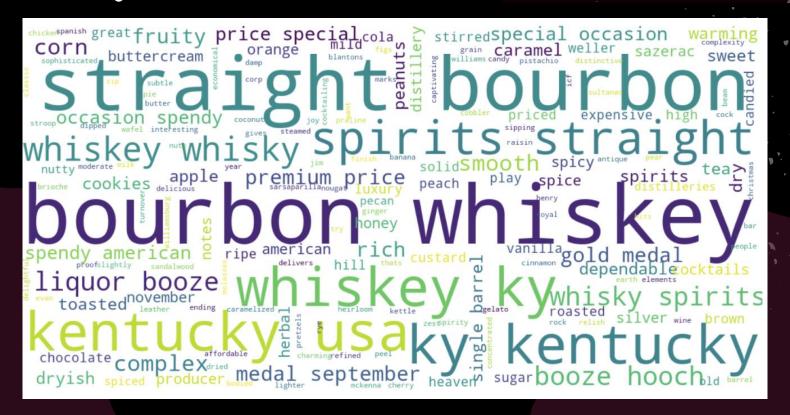
Cheap, affordable, good value



Whiskey, bourbon with rich flavor



Whiskey, bourbon with rich flavor



All 15 topics



All 15 topics

heap, affordable, and good value

Juicy smooth good value italian wine silver medal group best Oak ___ nv italy ___ O smooth fruity apple of the state of the stat

bittering hop ipa malt carbonation balance moderately finish pleasant over over all amounts sweetness nop beer make the fermentation when the same that the same style american profile glass m characterdry > dark; bitterness pine o notes category double ipa we head nice

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dry gin

special occasion white juniper distillery candied gin dry premium price dependableoccasion spendy

Recommendation System Application Deployment

Build and deploy to streamlit



DEMONSTRATION

How do we know that our system work? Let's see it in action!



FUTURE WORK

ALGORITHMS

Try other clustering algorithms (K-means, DBSCAN)

Optimize the recommendation system

DATA

Gather more data to recommend users.



THANK YOU

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