

Viña Cobos 2011 Marchiori Vineyard Block C2 Malbec

"This huge Malbec defines jammy and concentrated. The bouquet is ripe, soft and minty, while the palate echoes the nose with thickness and density. Flavors of prune, raisin, tea and blackberry are borderline syrupy, while the finish is smooth and pure but doesn't offer much spine or foundation. Drink this modern Malbec sooner rather than later"

- Michael Schachner



Problem:
Confusing
language in
descriptions and
reviews



Solution: NLP recommendation system

Recommendation system based on topic modeling of 119,000 wine review descriptions



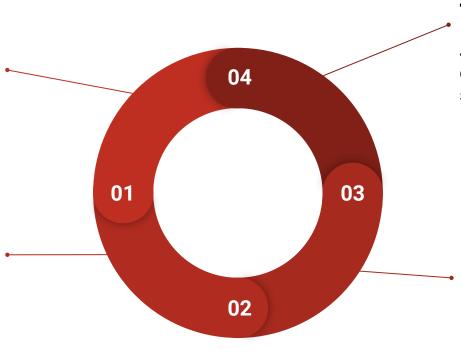
Workflow

Exploratory Data Analysis

119k wine reviews from sommeliers for Wine Enthusiast.

Text Preprocessing

Curated stop word list, stemmed/lemmatized, tokenized



Recommendation system based off final Gensim LDA

Jensen-Shannon Distance computed to find most similar wines

NLP Models

Vectorized words and iterated over many versions of LSA and LDA models

Topic breakdown for Viña Cobos malbec

Blend, Chocolate, Black, Cherry, Blackberry

Berry, Plum, Herbal, Tannic, Feel

Finish, red, mild, chunky, short

COBOS

Vintage, oak, mix, part, highlight Oak, herb, vanilla, spice, finish

Process for recommending new wines

Original wine's
description is
preprocessed and put
into same format as
LDA model

Run through fitted LDA model with optional price filter. Find wines with smallest Jensen-Shannon Distance

Most similar wines are recommended along with some "exploration" wines

Recommendation for Viña Cobos

Swiftwater Cellars Cabernet Sauvignon, WA

"Though aged in just 40% new French oak, the barrel notes of mocha and roasted coffee bean take up much of the stage with dark fruit and herbs fighting for attention. The flavors are ripe and lush but seem a bit clipped."

Sean Sullivan



Blend, Chocolate, Black, Cherry, Blackberry

> Finish, red, mild, chunky, short

> > Vintage, oak, mix, part, highlight

Berry, Plum, Herbal, Tannic, Feel

Oak, herb, vanilla, spice, finish

Thank you

Alen Tersakyan

Summary

Problem: Wine descriptions can be confusing leading to difficulty in pinpointing preferences

NLP Models: Topic modeling to find trends in language used to describe wines

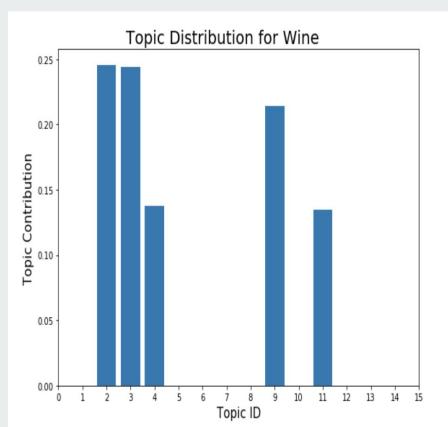
Recommendation System: Used LDA topic modeling and Jensen-Shannon Distance to find similar, more affordable wines

Flaco Winemaker Notes

Brilliant ruby-red. A highly perfumed nose evokes ripe red berries and floral pastilles, and a hint of white pepper lends a spicy touch. Plush, seamless and gently sweet, offering raspberry and cherry compote flavors that become more energetic on the back half. Emphatically fruity and supple in texture, finishing with just a hint of smooth, harmonious tannins. This fruit-driven, very appealing wine offers superb value.

The fresh, pure character of this wine makes this an extremely versatile wine to pair with food. This wine pairs well with white meats like pork and chicken and flaky fish like hake, cod or flounder. This has the fruit and acidity to match with red meats, as well.

Original Malbec



Recommended Wine

