

Teammate Goals?

## Wineinator Project

Users: Winery / Wine Vintener

Questions

What chemical properties contribute to high quality wine?

What is the weight and combination of these properties that produce the highest quality wines?

What should I focus improvement of our wine producing processes on to achieve high ? What are the goal outputs for our wine producing processes?

Given the set of properties I currently can control, and the range of values I can achieve, what combination of properties should I target to product the highest quality wine right now

Data

Red wine dataset

White win dataset

Regression

Formual for regression line

Pvalues for the weights

Scatter plots

Acidity vs Quality

Sulfates vs. Quality

etc...

Predictor

predictor experiments

SVM

Regression

Random Forest

K-Means

Find the combos that product highest quality

10000 runs

filter the top 5 %

analyze and vis the distribution

Input ranges of properties and predictu quality

min and max values for each property

run the predictor 1000 times

Pick the top 10% and present

Presentation mechanism

Python Notebook?

Confidence	100%
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Integrate HTML App

Confidence	53.265%
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Python Notebook + Tableau Visualizations

Confidence	76.42672%
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Questions

Where are nearby wineries?

What is selection of the wines at those wineries?

Where generally in Mo. can you find wineries with greater selections

What education is available at the wineries?

What events are happening at the wineries?

Wine pairing suggestions?

How much do wines cost?

App Features

geo map with Mo Wineries

Mo wineries website

Selections of wineries

for just a few wineries closest to St. Louis

Compare selections

Price match vs blend

popular blends

Reviews of Mo. Wines

kaggle dataset of wine enthusiast reviews

Presentation Method

Tableau story board

Integrated HTML App

Users: Missouri Wine Tourist