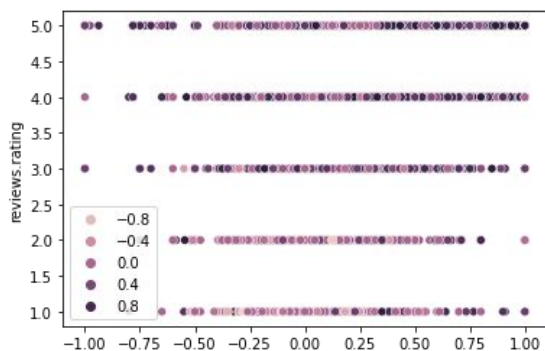
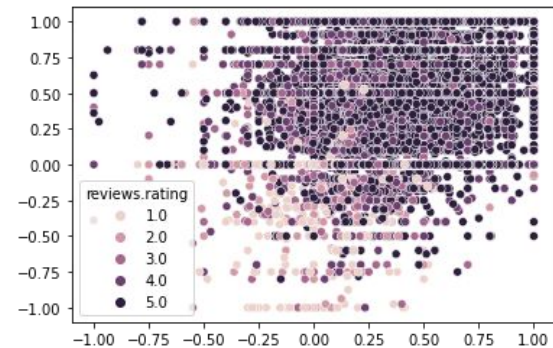
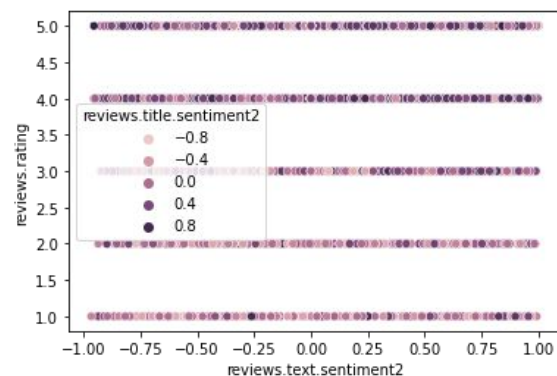
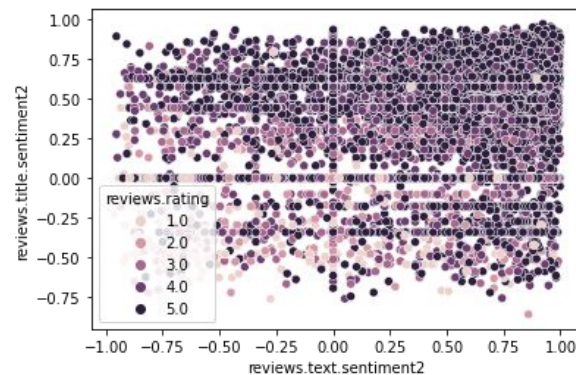


TextBlob vs. Vader Comparison

TextBlob Sentiment Analysis vs. Rating



Vader Sentiment Analysis vs. Rating

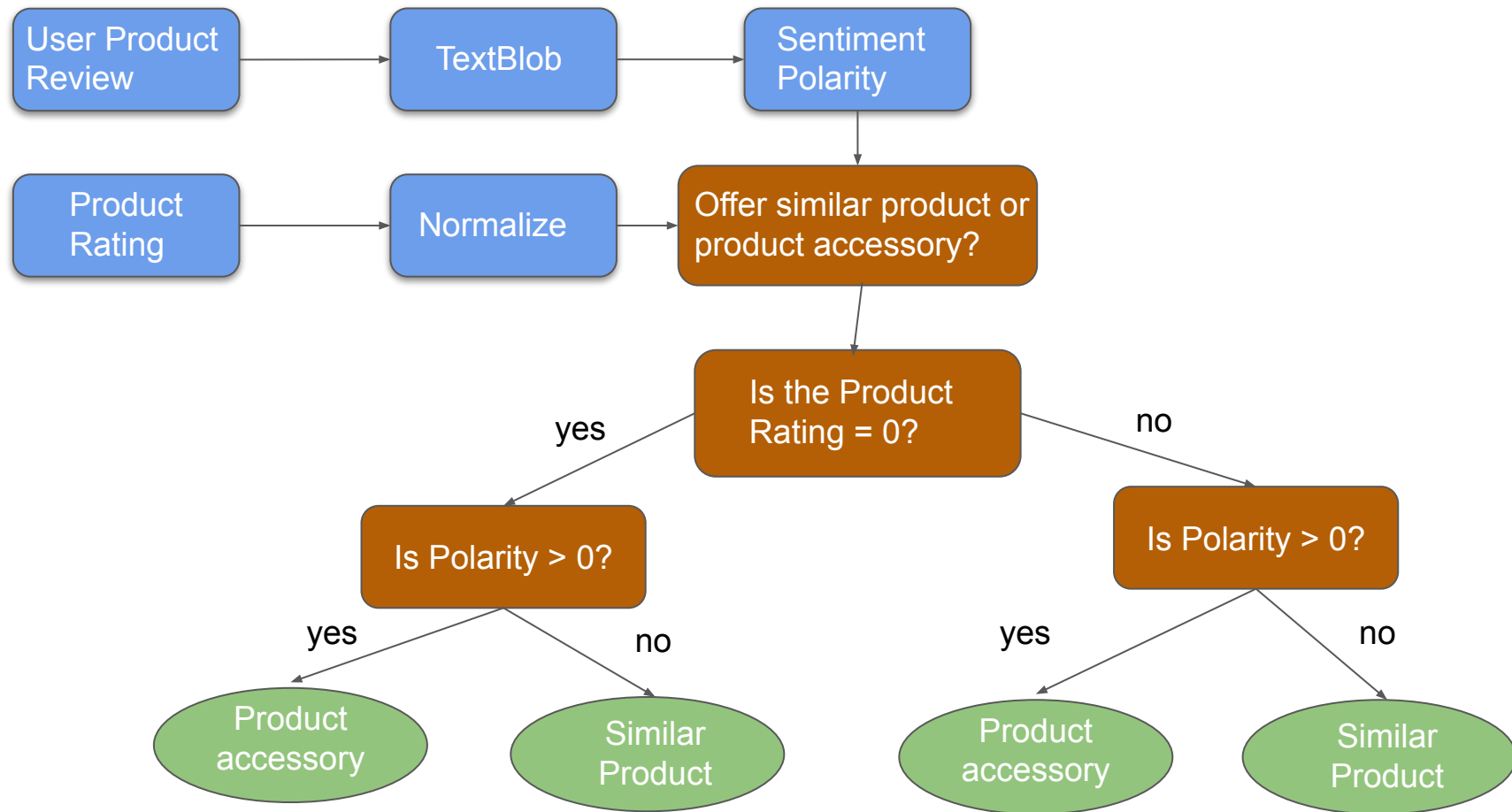


TextBlob sentiment analysis algorithm gives polarity scores more closer correlated to the ratings given by the reviewers.

Two things will have to be done to use a decision tree model for recommendation.

- 1) Normalize ratings between -1 and 1
- 2) Results data will have to be synthetically created based on parameters for training model

However, after learning about logistic regression model during this due date, we might be inclined to use this model instead. Further exploration will need to be done.



Model Function Breakdown

Step 1: Review text is input into
TextBlob sentiment analysis
Result: Polarity Value

Step 2: Polarity value combined
with normalized Product Rating is
used in decision tree model
Result: Product Recommendation

Note: as we do not have access to the full list of Amazon Products
results of the decision tree will be either "Similar Product" or
"Accessory Product" in place of the actual Amazon products.