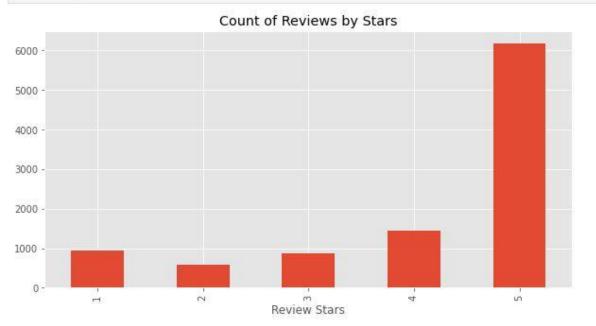
df.head()

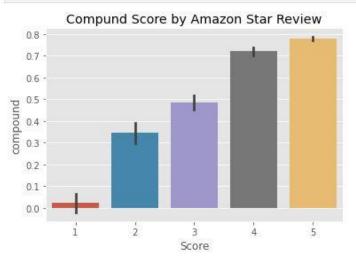
	ld	ProductId	Userld	ProfileName	HelpfulnessNumerator	Helpfulness Denominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	"Delight" says it all	This is a confection that has been around a fe
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	Cough Medicine	If you are looking for the secret ingredient i
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	Great taffy	Great taffy at a great price. There was a wid

Quick EDA

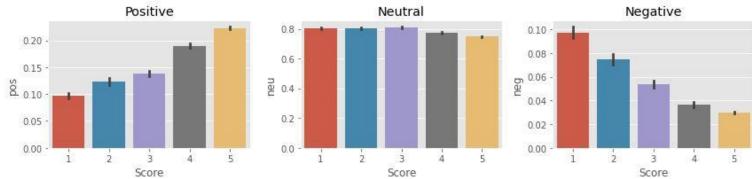


Plot VADER results

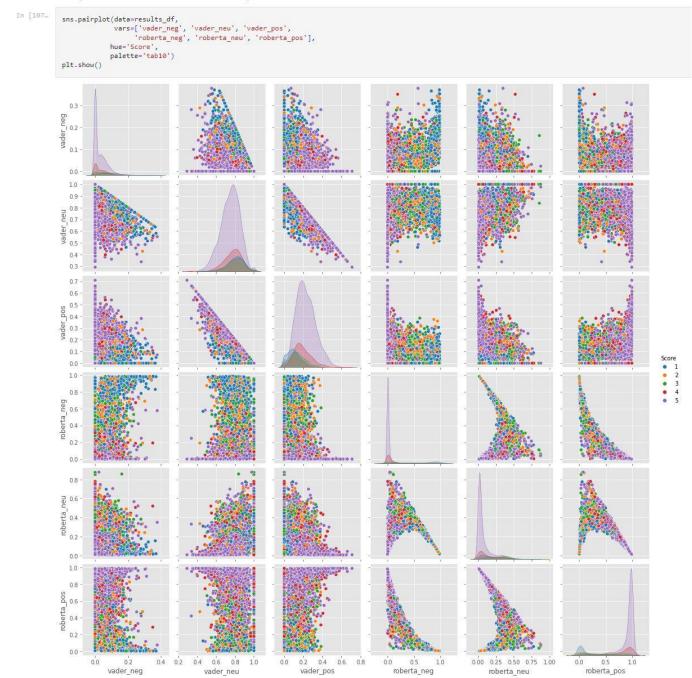
```
ax = sns.barplot(data=vaders, x='Score', y='compound')
ax.set_title('Compund Score by Amazon Star Review')
plt.show()
```



```
fig, axs = plt.subplots(1, 3, figsize=(12, 3))
sns.barplot(data=vaders, x='Score', y='pos', ax=axs[0])
sns.barplot(data=vaders, x='Score', y='neu', ax=axs[1])
sns.barplot(data=vaders, x='Score', y='neg', ax=axs[2])
axs[0].set_title('Positive')
axs[1].set_title('Neutral')
axs[2].set_title('Negative')
plt.tight_layout()
plt.show()
```



Step 3. Combine and compare



Step 4: Review Examples:

Positive 1-Star and Negative 5-Star Reviews

Lets look at some examples where the model scoring and review score differ the most.

```
results df.query('Score == 1') \
    .sort values('roberta pos', ascending=False)['Text'].values[0]
'Bisquick GF is easy to use. Pancakes and muffins are very<br />tasty. The product is quick and easy to use. It makes my day. Gram'
results df.query('Score == 1') \
    .sort values('vader pos', ascending=False)['Text'].values[0]
'This flavor is horrible. There are many other flavors much better. Hawaiian Hazelnut is great! Breakfast in Bed is AWesome!'
# nevative sentiment 5-Star view
results df.query('Score == 5') \
    .sort values('roberta neg', ascending=False)['Text'].values[0]
'They have a bad taste, i finish giving them away because my son started to cry everytime i tried to give these. I prefer Beech nut or Gerber. Yuck!'
results df.query('Score == 5') \
    .sort_values('vader_neg', ascending=False)['Text'].values[0]
'My two cats must not be interested in grass, because it grew but they ignored it. Had no problems growing it.'
```