https://www.kaggle.com/datasets/snap/amazon-fine-food-reviews

In [1]:

```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from wordcloud import WordCloud
import nltk
from nltk.corpus import stopwords
from nltk.stem import SnowballStemmer
from sklearn.feature extraction.text import CountVectorizer
from collections import Counter
from numpy import where
from imblearn.over sampling import SMOTE
from sklearn.decomposition import PCA
from sklearn.preprocessing import OneHotEncoder
from sklearn.preprocessing import StandardScaler
from sklearn.model selection import train test split
from sklearn.linear model import LogisticRegression
from sklearn.metrics import accuracy score
from sklearn.metrics import confusion matrix, ConfusionMatrixDisplay
from sklearn import metrics
from scipy.sparse import hstack, vstack
from prettytable import PrettyTable
from scipy.stats import loguniform
from sklearn.model selection import RepeatedStratifiedKFold, RandomizedSearchCV, GridSear
chCV
In [2]:
```

```
df = pd.read_csv("Reviews.csv", on_bad_lines='skip')
df.head()
```

Out[2]:

	ld	ProductId	Userid	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	1
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Α
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia	1	1	4	1219017600	

Corres"

```
ld
         ProductId
                             Userld ProfileName HelpfulnessNumerator HelpfulnessDenominator Score
                                                                                                  Time
  4 B000UA0QIQ
                   A395BORC6FGVXV
                                                                                          2 1307923200
                                          Karl
                                                               3
                                     Michael D.
     B006K2ZZ7K A1UQRSCLF8GW1T
                                                               0
                                                                                          5 1350777600 G
                                    Bigham "M.
                                       Wassir"
In [3]:
df.shape
Out[3]:
(568454, 10)
In [4]:
# Limiting current dataset to 5000 rows
df = df[:10000]
df.shape
Out[4]:
(10000, 10)
```

Understanding the Dataset:

- Id: Just the Row Number
- ProductId: Unique identifier for the product
- UserId: Ungiue identifier for the user
- ProfileName: Profile name of the user
- HelpfulnessNumerator: Number of users who found the review helpful
- HelpfulnessDenominator: Number of users who indicated whether they found the review helpful or not
- Score: Rating between 1 and 5
- Time: Timestamp for the review
- . Summary: Brief summary of the review
- Text: Text of the review

EDA 1

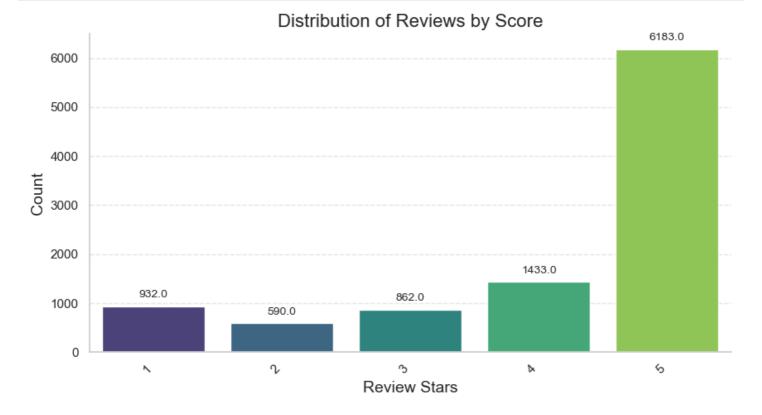
Check null and missing values

```
In [7]:
df.isna().sum()
Out[7]:
                           0
Ιd
ProductId
                           0
                           0
UserId
ProfileName
                           0
HelpfulnessNumerator
                           0
HelpfulnessDenominator
                          0
Score
                           0
Time
                           0
Summary
                          0
Text
dtype: int64
In [8]:
df.isnull().sum()
Out[8]:
                           0
ProductId
                           0
UserId
                           0
ProfileName
                           0
HelpfulnessNumerator
                          0
HelpfulnessDenominator
                          \cap
                          0
Score
Time
                          0
                          0
Summary
Text
                           0
dtype: int64
Inference:
Only ProfileName and Summary are Null or Missing, so we can continue without removing those rows as
UserId and Text are present and we can use these features
In [9]:
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10000 entries, 0 to 9999
Data columns (total 10 columns):
    Column
                             Non-Null Count Dtype
 #
    _____
 0
     Ιd
                              10000 non-null
                                              int64
   ProductId
 1
                              10000 non-null object
                             10000 non-null object
    UserId
 2
                             10000 non-null object
 3
    ProfileName
   HelpfulnessNumerator 10000 non-null int64
 4
 5
   HelpfulnessDenominator 10000 non-null int64
 6
   Score
                             10000 non-null int64
 7
    Time
                             10000 non-null int64
 8
    Summary
                             10000 non-null object
    Text
                             10000 non-null object
dtypes: int64(5), object(5)
memory usage: 781.4+ KB
```

Check the score distribution

In [10]:

```
import matplotlib.pyplot as plt
```



```
In [11]:
```

```
# ax = df['Score'].value_counts().sort_index().plot(kind='bar', title='Reviews by Score',
figsize=(10, 5))
# ax.set_xlabel('Review Stars')
# plt.show()
```

In [12]:

```
df['Score'].value_counts()
```

Out[12]:

```
Score
5 6183
4 1433
1 932
3 862
2 590
Name: count, dtype: int64
```

Check duplicate values

In [13]:

```
duplicates = df[df.duplicated(subset=['ProductId', 'UserId', 'ProfileName', 'Time', 'Tex
```

Out[13]:

	ld	Productid	Userld	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Tin
466	467	B000G6RYNE	A3PJZ8TU8FDQ1K	Jared Castle	0	0	5	12317184(
574	575	B000G6RYNE	A3PJZ8TU8FDQ1K	Jared Castle	2	2	5	12317184(
2334	2335	B0001FQVCK	A5D06XJHDXK75	C. Po	3	3	5	119059200
2336	2337	B0001FQVCK	A5D06XJHDXK75	C. Po	1	1	5	11905920(
2613	2614	B0016FY6H6	A3I4PCBRENJNG2	L. Cain	4	4	4	130057920
2636	2637	B0016FY6H6	A2NLZ3M0OJV9NX	Mark Bodzin	3	4	2	13131072(
2647	2648	B0016FY6H6	A2NLZ3M0OJV9NX	Mark Bodzin	0	0	2	13131072
2653	2654	B0016FY6H6	A3I4PCBRENJNG2	L. Cain	0	0	4	130057920
2941	2942	B0002TJAZK	A3TVZM3ZIXG8YW	christopher hayes	7	11	1	12914208(

	ld	ProductId	Userld	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Tin
2943	2944	B0002TJAZK	A2ISKAWUPGGOLZ	M. S. Handley	2	4	1	13107744(
2946	2947	B0002TJAZK	A2ISKAWUPGGOLZ	M. S. Handley	0	1	1	13107744(
2947	2948	B0002TJAZK	A3TVZM3ZIXG8YW	christopher hayes	0	2	1	12914208(
5934	5935	B001O2IX8E	A3KDZCQ82JFWLN	Phoebe Oh	2	2	1	124588800
5958	5959	B001O2IX8E	A3KDZCQ82JFWLN	Phoebe Oh	0	1	1	12458880(
6516	6517	B005O8BLLU	APH7I7OZ8WUJP	J. Simpson	0	0	5	13474944(
6517	6518	B005O8BLLU	APH7I7OZ8WUJP	J. Simpson	0	0	5	13474944(
8522	8523	B003VXFK44	A10H24TDLK2VDP	William Jens Jensen	0	0	3	130982400
8523	8524	B003VXFK44	A10H24TDLK2VDP	William Jens Jensen	O	0	3	130982400
8702	8703	B003VXFK44	A10H24TDLK2VDP	William Jens Jensen	2	2	3	130982400

ld	Productid	Userld	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Tim
9231 9232	B006N3IG4K	A10H24TDLK2VDP	William Jens Jensen	0	0	3	13098240(
9232 9233	B006N3IG4K	A10H24TDLK2VDP	William Jens Jensen	0	0	3	130982400
9411 9412	B006N3IG4K	A10H24TDLK2VDP	William Jens Jensen	2	2	3	13098240(
[4]							<u>}</u>
In [14]:							
		et=['ProductId'	, 'UserId'	, 'ProfileName',	'Time', 'Text'],	keep=	False)
.value_cc	ounts()						
True	9978 22 unt, dtype:	: int64					
In [15]:							
duplicate	es[duplicat	tes['ProductId']] == 'B0016F	Y6H6']			
Out[15]:							
ld	ProductId	Userld I	ProfileName I	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time
2613 2614	B0016FY6H6	A3I4PCBRENJNG2	L. Cain	4	4	4	1300579200
2636 2637	B0016FY6H6	A2NLZ3M0OJV9NX	Mark Bodzin	3	4	2	1313107200
2647 2648	B0016FY6H6	A2NLZ3M0OJV9NX	Mark Bodzin	0	0	2	1313107200

2653 2654 B0016FY6H6 A3I4PCBRENJNG2

L. Cain

0

4 1300579200

Time

Data Cleaning

Drop duplicates

(9988, 10)

```
In [16]:
# Check original shape of the dataset
df.shape
Out[16]:
(10000, 10)
In [17]:
# Drop the duplicates
df.drop_duplicates(subset=['ProductId', 'UserId', 'ProfileName', 'Time', 'Text'], keep='
first', inplace=True)
df.shape
Out[17]:
```

Helpfulness numerator should not exceed Helpfulness denominator

```
In [18]:
df[df["HelpfulnessNumerator"] > df["HelpfulnessDenominator"]]
Out[18]:
```

Id ProductId UserId ProfileName HelpfulnessNumerator HelpfulnessDenominator Score Time Summary Text

```
In [19]:
print(f"No. of Datapoints BEFORE discarding : {df.shape[0]}")
df = df[df["HelpfulnessNumerator"] <= df["HelpfulnessDenominator"]]</pre>
print(f"No. of Datapoints AFTER discarding : {df.shape[0]}")
No. of Datapoints BEFORE discarding: 9988
No. of Datapoints AFTER discarding: 9988
```

Feature Engineering 1

```
In [20]:
print("Positive reviews:", df[df['Score']>3].shape[0])
print("Negative reviews:", df[df['Score']<=3].shape[0])</pre>
```

Positive reviews: 7612 Negative reviews: 2376

The dataframe is clearly imbalanced

```
In [21]:
```

```
df['Review'] = [1 if x>3 else 0 for x in df['Score']] # set 1 for positive reviews, 0 fo
r negative reviews
df.head(5)
```

Out[21]:

	ld	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominato	r Score	Time	
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1 5	1303862400	ı
1	2	B00813GRG4	A1D87F6ZCVE5NK	dli pa	0		0 1	1346976000	Α
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1		1 4	1219017600	\$
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3 2	1307923200	
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	50000) 5		G
4				Michael D. Bigham "M.					1307923200

In [22]:

```
# Check negative and positive reviews (1, 2, 3 - negative; 4 and 5 - positive)
print("Negative values with scores 1, 2 and 3:", len(df[df['Review']==0]))
print("Positive values with score 4 and 5:", len(df[df['Review']==1]))
```

Negative values with scores 1, 2 and 3: 2376 Positive values with score 4 and 5: 7612

Add Word Count feature

```
In [23]:
```

```
df['WordCount'] = df['Text'].apply(lambda x: len(x.split()))
df.head()
```

Out[23]:

	ld	ProductId	Userld	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time :
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400

	ld	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	ĺ
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	A
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	;
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	G
4									•

Add Character Count feature

In [24]:

```
df['CharacterCount'] = df['Text'].apply(lambda x: len(x))
df.head()
```

Out[24]:

	ld	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	ī
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Α
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	:
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	
4	5	B006K2 ZZ 7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	G

Add *Helpfulness percentage* feature

In [25]:

 $\begin{tabular}{ll} $\tt df["HelpfulnessPercentage"] = df[["HelpfulnessNumerator","HelpfulnessDenominator"]].apply (lambda x: ((x[0]/x[1])*100.0) if x[1] else 0.0, axis=1) \\ tabular df.head(-5) \\ \end{tabular}$

Out[25]:

	ld	Productid	Userld	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Tir
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	13038624
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	13469760
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	12190176
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	13079232
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	13507776
					•••			
9990	9991	B000P41A28	A82CL6H9NWSJC	Carl Nothnagel	6	8	5	13026528
9991	9992	B000P41A28	A181WVPZSOKTVV	GRIZZLY	12	17	5	13126752
9992	9993	B000P41A28	A3HINZRNCW1SKA	Нарру Мот	1	1	5	13262400
9993	9994	B000P41A28	AV3IMDC3C0F8	Miss K	1	1	5	12022560

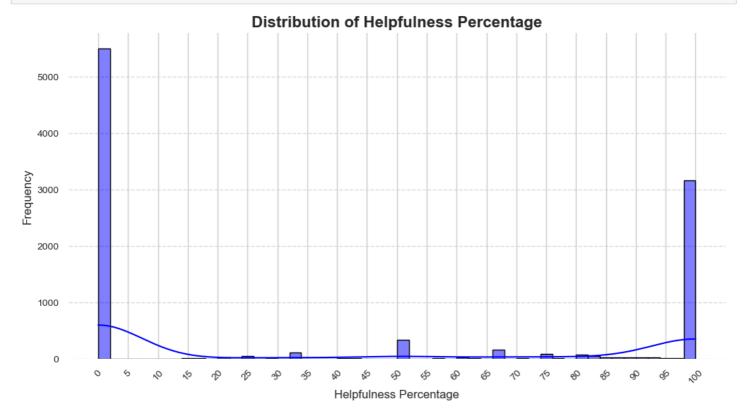


9983 rows × 14 columns

```
d p
```

```
In [26]:
```

```
plt.figure(figsize=(12, 6))
sns.histplot(data=df["HelpfulnessPercentage"], bins=50, kde=True, color='blue', edgecolor
='black')
plt.title("Distribution of Helpfulness Percentage", fontweight='bold', fontsize=16)
plt.xlabel("Helpfulness Percentage", fontsize=12)
plt.ylabel("Frequency", fontsize=12)
plt.xticks(range(0, 101, 5), fontsize=10, rotation=45)
plt.yticks(fontsize=10)
plt.grid(axis='y', linestyle='--', alpha=0.7)
sns.despine(left=True, bottom=True)
plt.show()
```



Adding *Helpfulness Indicator* Feature

```
In [27]:
```

```
df.loc[df["HelpfulnessPercentage"] >= 75, 'HelpfulnessIndicator'] = 'Useful'
df.loc[(df["HelpfulnessPercentage"] > 40) & (df["HelpfulnessPercentage"] < 75), 'Helpful
nessIndicator'] = 'Intermediate'
df.loc[(df["HelpfulnessPercentage"] > 0) & (df["HelpfulnessPercentage"] <= 40), 'Helpful
nessIndicator'] = 'Not Useful'
df.loc[df["HelpfulnessPercentage"] == 0, 'HelpfulnessIndicator'] = 'Not Available'
df.head()</pre>
```

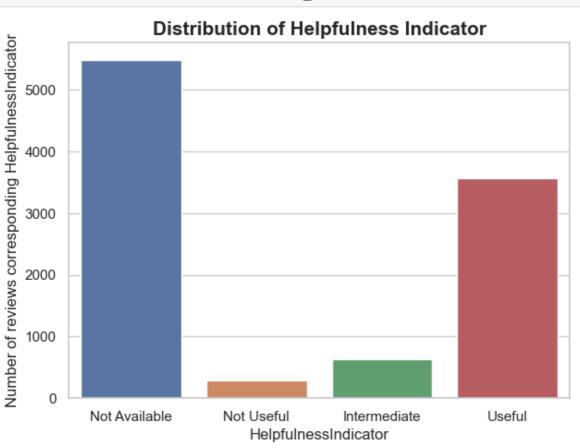
Out[27]:

 Productid	Userid ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	lime	:
						Ī

	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	A
2									
	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	;
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	G

In [28]:

```
plt.figure(figsize=(7,5))
sns.countplot(df, x='HelpfulnessIndicator', order=["Not Available", "Not Useful", "Intermed
iate", "Useful"])
plt.title("Distribution of Helpfulness Indicator", fontweight='bold', fontsize=15)
plt.xlabel("HelpfulnessIndicator")
plt.ylabel("Number of reviews corresponding HelpfulnessIndicator")
plt.show()
print()
print(df['HelpfulnessIndicator'].value_counts()[[0,3,2,1]])
```



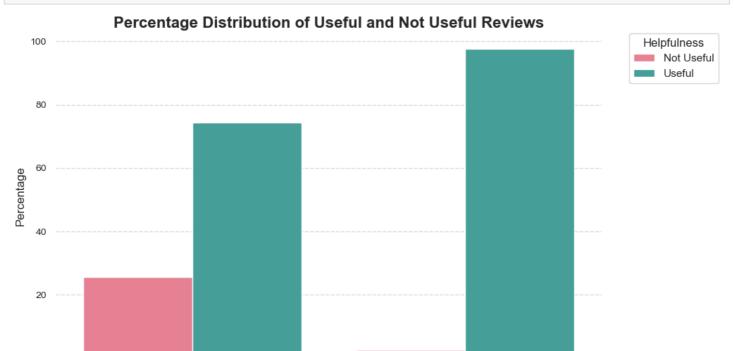
```
HelpfulnessIndicator
Not Available 5494
Not Useful 290
Intermediate 629
Useful 3575
Name: count, dtype: int64
```

EDA 2

Distribution of useful and non-useful reviews in each of the set of Positive and Negative Reviews

```
In [29]:
```

```
df temp = df[(df["HelpfulnessIndicator"] != "Not Available") & (df["HelpfulnessIndicator"]
"] != "Intermediate")]
# Calculate the percentage distribution
df temp 1 = df temp["HelpfulnessIndicator"].groupby(df temp["Review"]).value counts(norm
alize=True) * 100
df temp 1 = df temp 1.rename("Percentage").reset index()
# Set a color palette for the plot
colors = sns.color palette("husl", 2)
# Plotting
plt.figure(figsize=(10, 6))
sns.barplot(data=df temp 1, x="Review", y="Percentage", hue="HelpfulnessIndicator", pale
tte=colors, hue_order=["Not Useful", "Useful"])
plt.title("Percentage Distribution of Useful and Not Useful Reviews", fontsize=16, fontwe
ight='bold')
plt.xlabel("Review", fontsize=12)
plt.ylabel("Percentage", fontsize=12)
plt.legend(title="Helpfulness", bbox to anchor=(1.05, 1), loc=2, borderaxespad=0.)
plt.xticks(rotation=45, ha='right', fontsize=10)
plt.yticks(fontsize=10)
plt.grid(axis='y', linestyle='--', alpha=0.7)
sns.despine(left=True, bottom=True)
plt.show()
# Display the DataFrame
print("\nDataFrame displaying the Percentage Distribution of Useful and Not Useful Review
print(df temp 1)
```



Review

```
DataFrame displaying the Percentage Distribution of Useful and Not Useful Reviews:
  Review HelpfulnessIndicator Percentage
0
                        Useful
                                 74.440518
1
        0
                    Not Useful
                                 25.559482
2
        1
                        Useful
                                97.579576
3
        1
                    Not Useful
                                  2.420424
```

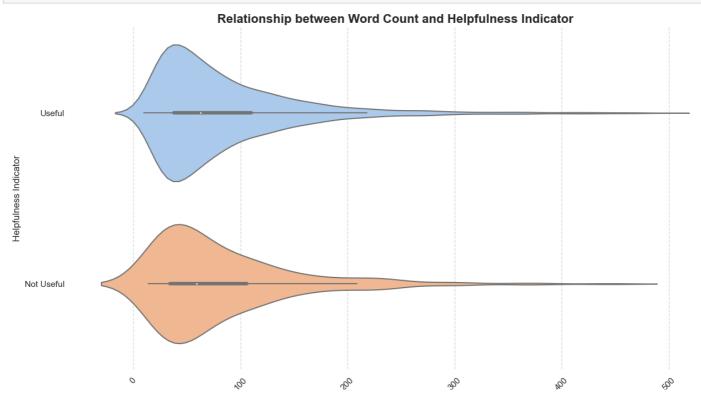
Inference:

- People find both positive and negative reviews useful
- It's very rare that positive reviews are not useful, meaning the reviews are well written and true in the dataset

Usefulness vs Length of the Review

```
In [30]:
```

```
# Filter out irrelevant categories and consider reviews with 500 words or less
temp df useful nonuseful 500wc = df[(df["HelpfulnessIndicator"] != "Not Available") & (d
f["HelpfulnessIndicator"] != "Intermediate") & (df["WordCount"] < 500)]</pre>
# Plotting
plt.figure(figsize=(15, 8))
sns.violinplot(x='WordCount', y='HelpfulnessIndicator', data=temp df useful nonuseful 500
wc, orient="h", palette="pastel")
plt.title("Relationship between Word Count and Helpfulness Indicator", fontsize=16, fontw
eight='bold')
plt.xlabel("Word Count", fontsize=12)
plt.ylabel("Helpfulness Indicator", fontsize=12)
plt.xticks(rotation=45)
plt.grid(axis='x', linestyle='--', alpha=0.7)
sns.despine(left=True, bottom=True)
plt.show()
# Display the descriptive statistics
print("\nDescriptive Statistics for Word Count by Helpfulness Indicator:")
print(temp df useful nonuseful 500wc["WordCount"].groupby(temp df useful nonuseful 500wc[
"HelpfulnessIndicator"]).describe())
```



Word Count

```
Descriptive Statistics for Word Count by Helpfulness Indicator:
                                                              50%
                                                                     75%
                                             std min
                                                         25%
                      count
                                 mean
HelpfulnessIndicator
                      287.0 81.975610 68.004238 14.0 34.5 59.0 106.0
Not Useful
Useful
                     3558.0
                            84.632659 68.806229 10.0 38.0 63.0 110.0
                       max
HelpfulnessIndicator
Not Useful
                     445.0
Useful
                     492.0
```

Inference:

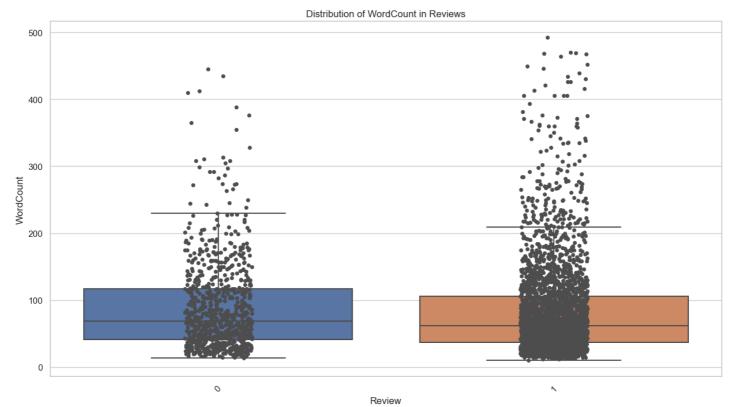
- · Useful reviews are concise.
- · Not useful reviews are lengthy

Review Length vs Negative/Positive

In [31]:

```
import matplotlib.pyplot as plt
import seaborn as sns

sns.set(style="whitegrid")
plt.figure(figsize=(15, 8))
sns.boxplot(x='Review', y='WordCount', data=temp_df_useful_nonuseful_500wc, showfliers=F
alse)
sns.stripplot(x='Review', y='WordCount', data=temp_df_useful_nonuseful_500wc, jitter=True
, color=".3")
plt.xticks(rotation=45)
plt.xlabel('Review')
plt.ylabel('WordCount')
plt.title('Distribution of WordCount in Reviews')
plt.show()
print(temp_df_useful_nonuseful_500wc.groupby('Review')['WordCount'].describe())
```



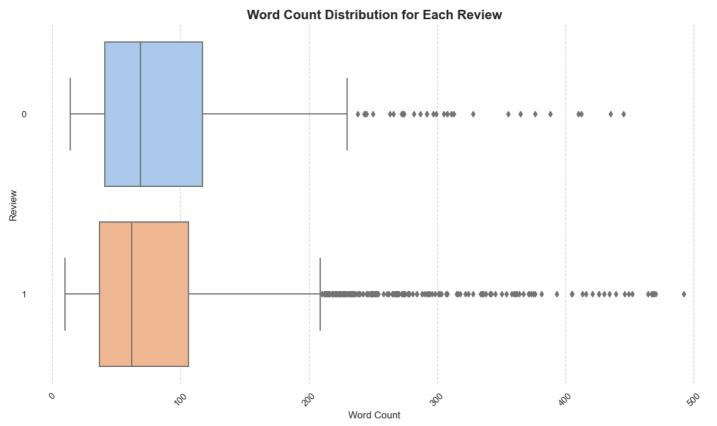
count mean std min 25% 50% 75% max Review 0 843.0 88.946619 66.856483 14.0 41.0 69.0 117.0 445.0 QQ 167000 60 210601 3000 O 1 0 0 37 N 62 N 106 0 192 N 1 JUUZ.U UJ.1U/ZZZ UJ.Z1JUUT 1U.U J/.U UZ.U 1UU.U TJZ.U

Inference:

Positive reviews are lengthy

```
In [32]:
```

```
import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize=(15, 8))
sns.boxplot(x='WordCount', y='Review', data=temp_df_useful_nonuseful_500wc, orient="h",
palette="pastel")
plt.title("Word Count Distribution for Each Review", fontsize=16, fontweight='bold')
plt.xlabel("Word Count", fontsize=12)
plt.ylabel("Review", fontsize=12)
plt.xticks(rotation=45)
plt.grid(axis='x', linestyle='--', alpha=0.7)
sns.despine(left=True, bottom=True)
plt.show()
# Display the descriptive statistics
print("\nDescriptive Statistics for Word Count by Review:")
print(temp_df_useful_nonuseful_500wc["WordCount"].groupby(temp_df_useful_nonuseful_500wc[
"Review"]).describe())
```



Data Processing 1

```
In [33]:
```

```
import re
def clean_text(reviews_df):
```

```
cleaned reviews df = []
    cleaned_reviews = ""
    for text in reviews df:
        text = text.lower() # Converting to lowercase
        pattern = re.compile('<.*?>')
        text = re.sub(pattern, ' ', text) # Removing HTML tags
        text = re.sub(r'[?|!|\'|"|#]', r'', text)
text = re.sub(r'[.|,|)|(|\|/]', r'', text) # Removing Punctuations
        words = [word for word in text.split() if word not in stopwords.words('english')
] # Removing stopwords
        cleaned reviews df.append(words)
        cleaned reviews = list(map(' '.join, cleaned reviews df))
    return cleaned reviews
In [34]:
df['CleanedText'] = clean text(df['Text'])
df['CleanedText'][56:90]
Out[34]:
      deal awesome arrived halloween indicated enoug...
57
      chocolate say great variety everything family ...
58
      great product nice combination chocolates perf...
59
      halloween sent bag daughters class share choco...
60
      watch prices assortment good get gold box purc...
61
      bag candy online pretty expensive cheaper orde...
62
                  arrived 6 days stale could eat 6 bags
63
      used endurolyte product several years pill pow...
64
      product serves well source electrolytes long r...
65
      stuff really works preventing cramping middle ...
66
      us low carb diet little tablets thing two year...
67
      purchased mango flavor doesnt take like mango ...
68
      youre impulsive like $6 ok dont get wrong qual...
69
      sooooo deliscious bad ate em fast gained 2 pds...
70
      albanese gummi bears rings good tasty high qua...
      grape gummy bears hard find area fact pretty m...
71
72
      ordered two two raspberry latice tarts directl...
73
      buyer beware please sweetener everybody maltit...
74
                                   okay would go way buy
75
      tea flavor whole brunch artifial flavors retur...
76
      looked like perfect snack trail mix unfortunat...
77
      taste really good purchasing different brand s...
78
      taste great berries melted may order winter or...
79
      know cannot make tea good granted south know n...
80
      peppermint stick delicious fun eat dad got one...
81
      great gift ages purchased giant canes recipien...
82
      know product title says molecular gastronomy d...
83
      dogs like flavors tried dog food reason itchin...
84
      awesome dog food however given boston severe r...
8.5
      three dogs love food bought specifically one d...
86
      dog ton allergies environmental food prescript...
87
      shepherd collie mix ibs vet recommended limite...
88
      natural balance dry dog food lamb meal brown r...
      great food love idea one food ages & breeds ît...
Name: CleanedText, dtype: object
```

In [35]:

df.head()

Out[35]:

 Id
 ProductId
 UserId
 ProfileName
 HelpfulnessNumerator
 HelpfulnessDenominator
 Score
 Time
 Score

 0
 1
 B001E4KFG0
 A3SGXH7AUHU8GW
 delmartian
 1
 1
 5
 1303862400

	ld	ProductId	Userld	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	;
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Α
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	ţ
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	G
4									F

EDA 3 - Word Cloud

Word cloud for all reviews

```
In [36]:
```

```
all_text = " ".join(review for review in df['CleanedText'])
wordcloud = WordCloud(stopwords=stopwords.words('english'), background_color="white").gen
erate(all_text)
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
plt.show()
```



Word cloud for positive review

```
In [37]:
```

```
positive_text = " ".join(review for review in df['CleanedText'][df['Review']==1])
wordcloud = WordCloud(stopwords=stopwords.words('english'), background_color="white").gen
erate(positive_text)
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
plt.show()
```



Word cloud for negative reviews

```
In [38]:
```

```
negative_text = " ".join(review for review in df['CleanedText'][df['Review']==0])
wordcloud = WordCloud(stopwords=stopwords.words('english'), background_color="white").gen
erate(negative_text)
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
plt.show()
```



Inference:

There will be group of words that indicate negative review, so would need to apply n-gram on that

Finding most common words in NEGATIVE REVIEWS and then plotting the word cloud:

```
In [39]:
```

```
# Tokenize the sentences in the corpus and create a dictionary with sentences and their f
requencies
wordfreq = {}
tokens = nltk.word_tokenize(negative_text)
for t in tokens:
    if t not in wordfreq.keys():
        wordfreq[t] = 1
    else:
        wordfreq[t] += 1
print(wordfreq)
```

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# Filter down to 200 most frequently ocurring words:
import heapq
most_freq = heapq.nlargest(200, wordfreq, key=wordfreq.get)
print(most_freq)
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In [41]:

wordfreq

Out[41]:

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 'pay': 60,
 'send': 27,
 'sample': 15,
 'tested': 7,
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 'unbelievable': 4,
 'indicate': 9,
 ...}
In [42]:
top 200 words = " ".join(word for word in most freq)
wordcloud top_200 = WordCloud(background_color="white").generate(top_200_words)
plt.imshow(wordcloud_top_200, interpolation='bilinear')
plt.axis("off")
```



Tess a VO Table buy to buy the least of thought first of thought found the thought found the price ordered of thought found thought thought found the price ordered thought found t

Data Processing 2

Stemming

'sluggish': 2,

```
In [43]:
```

```
snow = nltk.stem.SnowballStemmer('english')
final_X = []
for text in df['CleanedText']:
  words = [snow.stem(word) for word in text.split()]
  final_X.append(words)
final_X[:10]
```

Out[43]:

```
[['bought',
    'sever',
    'vital',
```

```
'can',
 'dog',
 'food',
 'product',
 'found',
 'good',
 'qualiti',
 'product',
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 'finicki',
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 'product',
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 'case',
 'filbert',
 'cut',
 'tini',
 'squar',
 'liber',
 'coat',
 'powder',
 'sugar',
 'tini',
 'mouth',
 'heaven',
 'chewi',
 'flavor',
 'high',
 'recommend',
 'yummi',
 'treat',
 'familiar',
 'stori',
 'c',
 'lewi',
 'lion',
 'witch',
 'wardrob',
```

```
'-',
 'treat',
 'seduc',
 'edmund',
 'sell',
 'brother',
 'sister',
 'witch'],
['look',
 'secret',
 'ingredi',
 'robitussin',
 'believ',
 'found',
 'got',
 'addit',
 'root',
 'beer',
 'extract',
 'order',
 'good',
 'made',
 'cherri',
 'soda',
 'flavor',
 'medicin'],
['great',
 'taffi',
 'great',
 'price',
 'wide',
 'assort',
 'yummi',
 'taffi',
 'deliveri',
 'quick',
 'taffi',
 'lover',
 'deal'],
['got',
 'wild',
 'hair',
 'taffi',
 'order',
 'five',
 'pound',
 'bag',
 'taffi',
 'enjoy',
 'mani',
 'flavors:',
 'watermelon',
 'root',
 'beer',
 'melon',
 'peppermint',
 'grape',
 'etc',
 'complaint',
 'bit',
 'much',
 'red',
 'black',
 'licorice-flavor',
 'piec',
 'particular',
 'favorit',
 'kid',
 'husband',
 'last',
 'two',
 'week',
```

```
'would',
 'recommend',
 'brand',
 'taffi',
 '--',
 'delight',
 'treat'],
['saltwat',
 'taffi',
 'great',
 'flavor',
 'soft',
 'chewi',
 'candi',
 'individu',
 'wrap',
 'well',
 'none',
 'candi',
 'stuck',
 'togeth',
 'happen',
 'expens',
 'version',
 'fraling',
 'would',
 'high',
 'recommend',
 'candi',
 'serv',
 'beach-them',
 'parti',
 'everyon',
 'love'],
['taffi',
 'good',
 'soft',
 'chewi',
 'flavor',
 'amaz',
 'would',
 'definit',
 'recommend',
 'buy',
 'satisfi'],
['right',
 'im',
 'most',
 'sprout',
 'cat',
 'eat',
 'grass',
 'love',
 'rotat',
 'around',
 'wheatgrass',
 'rye'],
['healthi',
 'dog',
 'food',
 'good',
 'digest',
 'also',
 'good',
 'small',
 'puppi',
 'dog',
 'eat',
 'requir',
 'amount',
 'everi',
 'feed']]
```

```
In [44]:
final y = df['Review']
```

Convert to bag of words

```
In [45]:
```

```
stemmed X = []
for row in final X:
   sentence = ''
   for word in row:
       sentence = sentence + ' ' + word
   stemmed X.append(sentence.strip())
```

In [46]:

```
stemmed X[:5]
```

Out[46]:

['bought sever vital can dog food product found good qualiti product look like stew proce ss meat smell better labrador finicki appreci product better',

'product arriv label jumbo salt peanut peanut actual small size unsalt sure error vendor intend repres product jumbo',

'confect around centuri light pillowi citrus gelatin nut - case filbert cut tini squar l iber coat powder sugar tini mouth heaven chewi flavor high recommend yummi treat familiar stori c lewi lion witch wardrob - treat seduc edmund sell brother sister witch',

'look secret ingredi robitussin believ found got addit root beer extract order good made cherri soda flavor medicin',

'great taffi great price wide assort yummi taffi deliveri quick taffi lover deal']

In [47]:

```
count vect = CountVectorizer(max features=100)
bow_X = count_vect.fit_transform(stemmed_X)
final X = bow X
print(bow X[:5])
```

(0, 7) 1

(0, 22) 1

(0, 32) 1

(0, 68) 3

(0, 33) 1

(0, 38) 1

(0, 50) 1

(0, 48) 1

(0, 5) 2

(1, 68) 2

(2, 81) 1 (2, 31) 1

(2, 41) 1

(2, 71) 1

(2, 88) 2

(3, 33) 1

(3, 38) 1 (3, 50) 1

(3, 31) 1

(3, 44) 1

(3, 39) 1

(3, 62) 1

(3, 53) 1 (4, 40) 2

(4, 67) 1

In [48]:

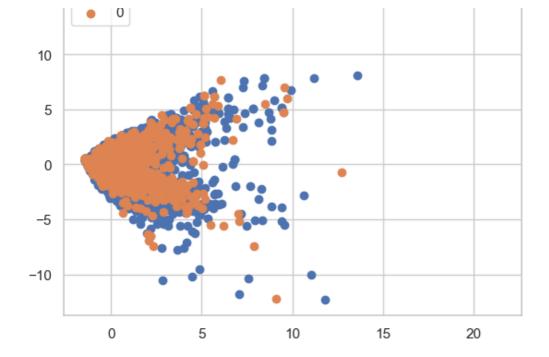
```
bow X.shape
```

Out[48]:

```
(9988, 100)
In [49]:
bow X.toarray()[:5]
Out[49]:
1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0],
   0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0],
   0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0,
    0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0,
    2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0],
   0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 1, 1, 0, 0, 0,
    1, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0],
   0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]], dtype=int64)
In [50]:
print("Count of final X:")
print(final X.shape[0])
print()
print("Count of final y:")
print(final_y.value_counts())
Count of final X:
9988
Count of final y:
Review
  7612
1
  2376
Name: count, dtype: int64
Plot the bag of words (before balancing)
In [51]:
pca = PCA(n_components = 2)
In [52]:
PCA X = pca.fit transform(final X.toarray()) # Apply PCA to plot 2 dimensions
counter = Counter(final y)
for label, _ in counter.items():
  row ix = where(final y == label)[0]
  plt.scatter(PCA X[row ix, 0], PCA X[row ix, 1], label=str(label))
plt.legend()
plt.show()
```

1

15



Applying SMOTE on dataset to balance it

In [53]:

```
oversample = SMOTE()

X_resampled, y_resampled = oversample.fit_resample(final_X, final_y)
X_resampled.shape
```

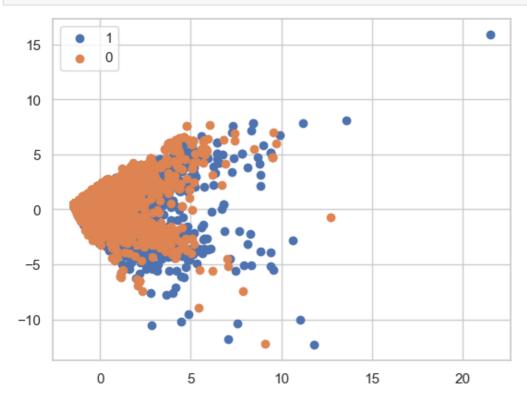
Out[53]:

(15224, 100)

In [54]:

```
PCA_SMOTE_X = pca.transform(X_resampled.toarray())

for label, _ in counter.items():
    row_ix = where(y_resampled == label)[0]
    plt.scatter(PCA_SMOTE_X[row_ix, 0], PCA_SMOTE_X[row_ix, 1], label=str(label))
plt.legend()
plt.show()
```



```
In [55]:
print("Shape of oversampled X:")
print(X resampled.shape)
print()
print("Shape of oversampled y:")
print(y resampled.shape)
Shape of oversampled X:
(15224, 100)
Shape of oversampled y:
(15224,)
In [56]:
df['StemmedText'] = stemmed X
df.head()
```

Out[56]:

	ld	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	:
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	ı
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Α
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	!
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	G

Logistic Regression

We have X-resampled, y_resampled -> Text input and Review (1/0 for positive/negative) for training input and output

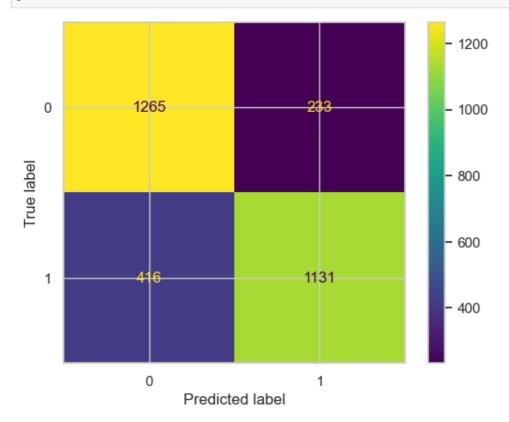
```
In [57]:
```

```
# Training set and test set:
X_train, X_test, y_train, y_test = train_test_split(X_resampled, y_resampled, test_size=
0.2, random state=42)
print(X_train.shape)
print(X_test.shape)
```

```
print(y_test.shape)
(12179, 100)
(3045, 100)
(12179,)
(3045,)
In [58]:
lr = LogisticRegression(C=1e5)
result = lr.fit(X=X train, y=y train)
predictions = result.predict(X test)
In [59]:
predictions[:5]
Out[59]:
array([0, 0, 0, 1, 1], dtype=int64)
In [60]:
from sklearn.metrics import precision_score, recall_score, f1_score
accuracy1 = accuracy_score(y_test, predictions)
print("Accuracy:", accuracy1)
precision1 = precision_score(y_test, predictions)
print("Precision Score:", precision1)
recall1 = recall score(y test, predictions)
print("Recall Score:", recall1)
f1 score1 = f1 score(y test, predictions)
print("F1 Score:", f1_score1)
Accuracy: 0.786863711001642
Precision Score: 0.8291788856304986
Recall Score: 0.7310924369747899
F1 Score: 0.777052559257987
In [61]:
training predictions = result.predict(X train)
training_accuracy1 = accuracy_score(y_train, training_predictions)
print(training_accuracy1)
0.7979308646030052
In [62]:
print(metrics.classification report(y test, predictions, target names = ["positive", "ne
gative"]))
              precision recall f1-score
                                             support
                             0.84
                   0.75
                                       0.80
                                                 1498
    positive
                                       0.78
   negative
                   0.83
                             0.73
                                                 1547
                                       0.79
                                                 3045
   accuracy
                  0.79
                           0.79
                                      0.79
   macro avq
                                                 3045
weighted avg
                                      0.79
                 0.79
                            0.79
                                                 3045
In [63]:
cm1 = confusion_matrix(y_test, predictions, labels=lr.classes_)
print(cm1)
[[1265 233]
[ 416 1131]]
In [64]:
```

print(y_train.shape)

disp1 = ConfusionMatrixDisplay(confusion_matrix=cm1, display_labels=lr.classes_)
disp1.plot()
plt.show()



Adding Features and then Applying Logistic Regression

In [65]:

df.head()

Out[65]:

	ld	Productid	Userid	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	ı
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	A
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	:
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	G

```
In [66]:

final_y.head() # Our output column

Out[66]:

0 1
1 0
2 1
3 0
```

In [67]:

1

Name: Review, dtype: int64

4

```
multifeature_X = df[['WordCount', 'CharacterCount', 'HelpfulnessPercentage', 'HelpfulnessIndicator', 'StemmedText']]
multifeature_X.head()
```

Out[67]:

	WordCount	CharacterCount	HelpfulnessPercentage	HelpfulnessIndicator	StemmedText
0	48	263	100.0	Useful	bought sever vital can dog food product found
1	31	190	0.0	Not Available	product arriv label jumbo salt peanut peanut a
2	94	509	100.0	Useful	confect around centuri light pillowi citrus ge
3	41	219	100.0	Useful	look secret ingredi robitussin believ found go
4	27	140	0.0	Not Available	great taffi great price wide assort yummi taff

In [68]:

```
# Train test split
X_train, X_test, y_train, y_test = train_test_split(multifeature_X, final_y, test_size=0
.2, random_state=42)
```

In [69]:

```
X_train[:5]
```

Out[69]:

	WordCount	CharacterCount	HelpfulnessPercentage	HelpfulnessIndicator	StemmedText
9529	17	78	100.000000	Useful	love green tea good price use tassimo machin
2169	75	373	0.000000	Not Available	heard wonder can food tri fussi schnauzer firs
6270	66	361	0.000000	Not Available	tri duplic without buy prepackag stuff never c
4781	107	581	82.352941	Useful	sinc began use sever year ago senior dog raeli
8359	24	118	0.000000	Not Available	realli enjoy one ive tri mani top 5 littl pric

In [70]:

```
# Convert output y to one hot encoding if it's categorical - in our case, we already have
numerical values

# Converting Helpfulness Indicator
encoder = OneHotEncoder()
X_train_encoded = encoder.fit_transform(X_train['HelpfulnessIndicator'].to_numpy().resha
pe(-1, 1))
X_test_encoded = encoder.transform(X_test['HelpfulnessIndicator'].to_numpy().reshape(-1,
```

```
1))
In [71]:
print(X train encoded[:5])
print(X train encoded.shape)
  (0, 3) 1.0
  (1, 1) 1.0
  (2, 1) 1.0
  (3, 3) 1.0
  (4, 1) 1.0
(7990, 4)
In [72]:
# Scaling the numerical features
scaler = StandardScaler()
X train scaled = scaler.fit transform(X train[['WordCount', 'CharacterCount', 'Helpfulne
ssPercentage']])
X test scaled = scaler.transform(X test[['WordCount', 'CharacterCount', 'HelpfulnessPerc
entage']])
In [73]:
print(X train scaled[:5])
print(X train scaled.shape)
[[-0.82982417 -0.84079984 1.31511415]
 [-0.01064847 - 0.0999254 - 0.85245898]
 [-0.13776194 -0.13006267 -0.85245898]
 [ 0.44131053  0.42245386  0.93260124]
 [-0.73095813 -0.74034229 -0.85245898]]
(7990, 3)
In [74]:
vectorizer = CountVectorizer(max features=100)
X train text = vectorizer.fit transform(X train['StemmedText'])
X test text = vectorizer.transform(X test['StemmedText'])
In [75]:
print(X train text[:1])
print(X train text.shape)
  (0, 52) 1
  (0, 84) 1
  (0, 38) 1
  (0, 67) 1
  (0, 91) 1
(7990, 100)
In [76]:
X train combined = hstack((X train encoded, X train scaled, X train text))
X test combined = hstack((X test encoded, X test scaled, X test text))
In [77]:
print(X train combined.shape)
print(X test combined.shape)
(7990, 107)
(1998, 107)
```

Training Logistic Regression Model

```
combined_result = lr.fit(X=X_train_combined, y=y_train)
predictions_with_FE = combined_result.predict(X_test_combined)
```

In [79]:

```
accuracy2 = accuracy_score(y_test, predictions_with_FE)
print("Accuracy:", accuracy2)
precision2 = precision_score(y_test, predictions_with_FE)
print("Precision Score:", precision2)
recall2 = recall_score(y_test, predictions_with_FE)
print("Recall Score:", recall2)
f1_score2 = f1_score(y_test, predictions_with_FE)
print("F1 Score:", f1_score2)
```

Accuracy: 0.8073073073073073

Precision Score: 0.8161512027491409 Recall Score: 0.9570181329751511 F1 Score: 0.8809891808346213

In [80]:

```
training_predictions_with_FE = combined_result.predict(X_train_combined)
training_accuracy2 = accuracy_score(y_train, training_predictions_with_FE)
print(training_accuracy2)
```

0.8086357947434293

In [81]:

print(metrics.classification_report(y_test, predictions_with_FE, target_names = ["positi
ve", "negative"]))

support	f1-score	recall	precision	
509 1489	0.49	0.37 0.96	0.75 0.82	positive negative
1998 1998 1998	0.81 0.69 0.78	0.66 0.81	0.78 0.80	accuracy macro avg weighted avg

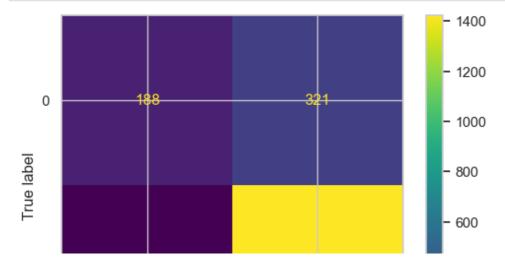
In [82]:

```
cm2 = confusion_matrix(y_test, predictions_with_FE, labels=lr.classes_)
print(cm2)
```

[[188 321] [64 1425]]

In [83]:

```
disp2 = ConfusionMatrixDisplay(confusion_matrix=cm2, display_labels=lr.classes_)
disp2.plot()
plt.show()
```



In [84]:

```
# Table:
comparison_table = PrettyTable(["Model", "Test Accuracy", "Train Accuracy", "Precision",
"Recall", "F1 Score"])
comparison_table.add_row(["Logistic Regression with Text feature", round(accuracy1*100,2),
    round(training_accuracy1*100,2), round(precision1*100,2), round(recall1*100,2), round(
f1_score1*100,2)])
comparison_table.add_row(["Logistic Regression with Feature Engineering", round(accuracy2*100,2), round(training_accuracy2*100,2), round(precision2*100,2), round(recall2*100,2),
round(f1_score2*100,2)])
print(comparison_table)
```

```
+----+
                    | Test Accuracy | Train Accuracy | Precis
        Model
ion | Recall | F1 Score |
+----+
----+
                      78.69
 Logistic Regression with Text feature
                             79.79
                                  1 82.9
 | 73.11 | 77.71 |
| Logistic Regression with Feature Engineering |
                      80.73
                           80.86
                                  81.6
| 95.7 | 88.1 |
           ----+
```

Randomized Search Cross Validation

In [85]:

```
# Concatenate the test and train variables back to perform randomizedsearchev and gridsea
rchev
print(y_train.shape)
print(y_test.shape)
X_with_FE = vstack((X_train_combined, X_test_combined))
y_with_FE = np.concatenate((y_train, y_test))
print(y_with_FE.shape)

(7990,)
(1998,)
(9988,)
```

In [86]:

```
model = LogisticRegression()
  cv = RepeatedStratifiedKFold(n_splits=10, n_repeats=3, random_state=1)

space = dict()
  space['solver'] = ['newton-cg', 'lbfgs', 'liblinear']
  space['penalty'] = ['12']
  space['C'] = loguniform(1e-5, 100)

search = RandomizedSearchCV(model, space, n_iter=500, scoring='accuracy', n_jobs=-1, cv=
  cv, random_state=1)

rscv_result = search.fit(X_with_FE, y_with_FE)

print('Best Score: %s' % rscv_result.best_score_)
```

```
Best Score: 0.8029310539664584
In [87]:
print('Best Hyperparameters: %s' % rscv result.best params )
Best Hyperparameters: {'C': 0.19240583534175013, 'penalty': '12', 'solver': 'lbfgs'}
In [88]:
rscv_model = LogisticRegression(C=0.19240583534175013, penalty='12', solver='lbfgs')
rscv model result = rscv model.fit(X=X train combined, y=y train)
rscv predictions with FE = combined result.predict(X test combined)
accuracy rscv = round(accuracy score(y test, rscv predictions with FE)*100,2)
precision rscv = round(precision score(y test, rscv predictions with FE)*100,2)
recall_rscv = round(recall_score(y_test, rscv_predictions with FE)*100,2)
fl score rscv = round(fl score(y test, rscv predictions with FE)*100,2)
# Training accuracy:
rscv train predictions = combined result.predict(X train combined)
train accuracy rscv = round(accuracy score(y train, rscv train predictions)*100,2)
comparison table.add row(["Feature Engineering with RandomizedSearchCV", accuracy rscv, t
rain_accuracy_rscv, precision_rscv, recall rscv, f1 score rscv])
print(comparison table)
+----+
----+
                  Model
                                          | Test Accuracy | Train Accuracy | Precis
ion | Recall | F1 Score |
```

Grid Search Cross Validation

The main difference is that the search space must be a discrete grid to be searched. This means that instead of using a log-uniform distribution for C, we can specify discrete values on a log scale.

```
In [89]:
```

```
model = LogisticRegression()

cv = RepeatedStratifiedKFold(n_splits=10, n_repeats=3, random_state=1)

space = dict()
space['solver'] = ['newton-cg', 'lbfgs', 'liblinear']
space['penalty'] = ['12']
space['C'] = [1e-5, 1e-4, 1e-3, 1e-2, 1e-1, 1, 10, 100]

search = GridSearchCV(model, space, scoring='accuracy', n_jobs=-1, cv=cv)

gscv_result = search.fit(X_with_FE, y_with_FE)

print('Best Score: %s' % gscv_result.best_score_)
# print('Best Hyperparameters: %s' % gscv_result.best_params_)
```

Best Score: 0.8023303864987231

In [90]:

```
print('Best Hyperparameters: %s' % gscv_result.best_params_)
Best Hyperparameters: {'C': 100, 'penalty': '12', 'solver': 'newton-cg'}
In [91]:
gscv model = LogisticRegression(C=100, penalty='12', solver='newton-cg')
gscv model result = gscv model.fit(X=X train combined, y=y train)
gscv predictions with FE = combined result.predict(X test combined)
accuracy gscv = round(accuracy score(y test, gscv predictions with FE)*100,2)
precision gscv = round(precision score(y test, gscv predictions with FE)*100,2)
recall gscv = round(recall score(y test, gscv predictions with FE) *100,2)
f1 score gscv = round(f1 score(y test, gscv predictions with FE)*100,2)
# Training accuracy:
gscv train predictions = combined result.predict(X train combined)
train accuracy gscv = round(accuracy score(y train, gscv train predictions)*100,2)
comparison table.add row(["Feature Engineering with GridSearchCV", accuracy gscv, train a
ccuracy_gscv, precision_gscv, recall_gscv, f1_score gscv])
print(comparison_table)
+-----
                 Model
                                       | Test Accuracy | Train Accuracy | Precis
ion | Recall | F1 Score |
----+
   Logistic Regression with Text feature | 78.69 | 79.79 | 82.9
2 | 73.11 | 77.71 |
| Logistic Regression with Feature Engineering |
                                            80.73
                                                           80.86
                                                                   | 81.6
2 | 95.7 | 88.1 |
| Feature Engineering with RandomizedSearchCV |
                                            80.73
                                                           80.86
                                                                   | 81.6
                                                     2
 | 95.7 | 88.1 |
   Feature Engineering with GridSearchCV |
                                            80.73
                                                     80.86
                                                                   | 81.6
  | 95.7 | 88.1 |
2
+----
                       ----+
In [99]:
from sklearn.tree import DecisionTreeClassifier
from scipy.stats import randint
# Decision Tree
model = DecisionTreeClassifier(random state=1)
cv = RepeatedStratifiedKFold(n splits=10, n repeats=3, random state=1)
space = dict()
space['criterion'] = ['gini', 'entropy']
space['splitter'] = ['best', 'random']
space['max depth'] = randint(1, 20)
space['min samples split'] = randint(2, 20)
space['min_samples_leaf'] = randint(1, 20)
search = RandomizedSearchCV(model, space, n iter=500, scoring='accuracy', n jobs=-1, cv=
cv, random state=1)
rscv result = search.fit(X with FE, y with FE)
print('Best Score: %s' % rscv result.best score )
Best Score: 0.7878132307324024
In [100]:
print('Best Hyperparameters: %s' % rscv_result.best_params_)
Best Hyperparameters: {'criterion': 'entropy', 'max depth': 13, 'min samples leaf': 19, '
min samples split': 9, 'splitter': 'random'}
```

```
In [102]:
rscv model = DecisionTreeClassifier(**rscv result.best params , random state=1)
rscv model result = rscv model.fit(X=X train combined, y=y train)
rscv predictions with FE = rscv model.predict(X test combined)
accuracy_rscv = round(accuracy_score(y_test, rscv_predictions_with_FE) * 100, 2)
train_accuracy_rscv = round(accuracy_score(y_train, rscv model.predict(X train combined)
) * 100, 2)
precision rscv = round(precision score(y test, rscv predictions with FE) * 100, 2)
recall rscv = round(recall score(y test, rscv predictions with FE) * 100, 2)
fl score rscv = round(fl score(y test, rscv predictions with FE) * 100, 2)
comparison table.add row(["Decision Tree with RandomizedSearchCV", accuracy rscv, train a
ccuracy rscv, precision rscv, recall rscv, f1 score rscv])
print(comparison table)
+----+
                Model
                                      | Test Accuracy | Train Accuracy | Precis
ion | Recall | F1 Score |
+----+
----+
   Logistic Regression with Text feature | 78.69 |
                                                         79.79 | 82.9
 | 73.11 | 77.71 |
| Logistic Regression with Feature Engineering | 80.73 |
                                                         80.86 | 81.6
2 | 95.7 | 88.1 |
| Feature Engineering with RandomizedSearchCV | 80.73 |
                                                       80.86 | 81.6
2 | 95.7 | 88.1 |
   Feature Engineering with GridSearchCV | 80.73 |
                                                       80.86
                                                                 | 81.6
2
 | 95.7 | 88.1 |
   Decision Tree with RandomizedSearchCV
                                          78.18
                                                   80.26
                                                                 79.2
3
 | 95.84 | 86.75 |
   Decision Tree with RandomizedSearchCV
                                          78.18
                                                   80.26
                                                                 79.2
 | 95.84 | 86.75 |
----+
In [103]:
from sklearn.ensemble import RandomForestClassifier
# Random Forest
rf model = RandomForestClassifier(random state=1)
cv = RepeatedStratifiedKFold(n splits=10, n repeats=3, random state=1)
rf space = dict()
rf space['n estimators'] = randint(10, 200)
rf space['criterion'] = ['gini', 'entropy']
rf_space['max_depth'] = randint(1, 20)
rf space['min samples split'] = randint(2, 20)
rf space['min samples leaf'] = randint(1, 20)
rf search = RandomizedSearchCV(rf model, rf space, n iter=500, scoring='accuracy', n jobs
=-1, cv=cv, random state=1)
rf_rscv_result = rf_search.fit(X_with_FE, y_with_FE)
print('Best Score: %s' % rf rscv result.best score )
Best Score: 0.8035644863300173
In [104]:
print('Best Hyperparameters: %s' % rf rscv result.best params)
Best Hyperparameters: {'criterion': 'gini', 'max_depth': 17, 'min_samples_leaf': 1, 'min_
samples_split': 2, 'n_estimators': 51}
```

rf rscv model = RandomForestClassifier(**rf rscv result.best params , random state=1)

In [105]:

```
rf_rscv_model_result = rf_rscv_model.fit(X=X_train_combined, y=y_train)
rf rscv predictions with FE = rf rscv model.predict(X test combined)
rf accuracy rscv = round(accuracy score(y test, rf rscv predictions with FE) * 100, 2)
rf train accuracy rscv = round(accuracy score(y train, rf rscv model.predict(X train com
bined)) * 100, 2)
rf precision rscv = round(precision score(y test, rf rscv predictions with FE) * 100, 2)
rf recall rscv = round(recall score(y test, rf rscv predictions with FE) * 100, 2)
rf f1 score rscv = round(f1 score(y test, rf rscv predictions with FE) * 100, 2)
comparison table.add row(["Random Forest with RandomizedSearchCV", rf accuracy rscv, rf
train accuracy rscv, rf precision rscv, rf recall rscv, rf f1 score rscv])
print(comparison table)
+----+
----+
          Model
                                  | Test Accuracy | Train Accuracy | Precis
ion | Recall | F1 Score |
+-----
----+
  Logistic Regression with Text feature | 78.69 | 79.79 | 82.9
2 | 73.11 | 77.71 |
| Logistic Regression with Feature Engineering | 80.73 | 80.86 | 81.6
2 | 95.7 | 88.1 |
| Feature Engineering with RandomizedSearchCV | 80.73 | 80.86 | 81.6
2 | 95.7 | 88.1 |
   Feature Engineering with GridSearchCV | 80.73 | 80.86 | 81.6
1
2
  | 95.7 | 88.1 |
  Decision Tree with RandomizedSearchCV |
                                      78.18 | 80.26 |
                                                             79.2
3
 | 95.84 | 86.75 |
  Decision Tree with RandomizedSearchCV | 78.18 | 80.26
                                                         79.2
3
 | 95.84 | 86.75 |
  Random Forest with RandomizedSearchCV | 80.28
                                                 88.75
                                                         80.
  | 97.85 | 88.09 |
----+
```

In []: