In [1]:	<pre>import pandas as pd import numpy as np import matplotlib.pyplot as plt import seaborn as sns</pre>					
	mporting the data set.					
in [2]:	<pre>playdt = pd.read_csv(r"C:\Users playdt  App</pre>	\ASUS\OneDrive\Desktop\Nirnoy\Placement\NITS  Translated_Review Sentiment Sentimer			_reviews.csv")	
- [ <del>-</del> ] :	<ul> <li>10 Best Foods for You I like e</li> <li>1 10 Best Foods for You This help</li> </ul>	eat delicious food. That's I'm cooking Positive  Ip eating healthy exercise regular basis Positive	1.00 0.25	0.533333 0.288462		
	<ul> <li>2 10 Best Foods for You</li> <li>3 10 Best Foods for You Work</li> <li>4 10 Best Foods for You</li> </ul>	NaN NaN  rks great especially going grocery store Positive  Best idea us Positive	NaN 0.40 1.00	NaN 0.875000 0.300000		
	64290 Houzz Interior Design Ideas Houzz Interior Design Ideas	NaN NaN NaN	 NaN NaN	 NaN NaN		
	Houzz Interior Design Ideas Houzz Interior Design Ideas Houzz Interior Design Ideas Houzz Interior Design Ideas	NaN NaN NaN NaN NaN NaN	NaN NaN NaN	NaN NaN NaN		
	4295 rows × 5 columns					
[3]:	Showing information about th	ne data.				
	<pre>0 App 642 1 Translated_Review 374 2 Sentiment 374</pre>	295 non-null object 127 non-null object 132 non-null object 132 non-null float64				
	Atypes: float64(2), object(3) nemory usage: 2.5+ MB  Data Types of the features.	152 HOH-HOLL TIOACO4				
[4]:	playdt.dtypes App objec	·†				
[4]:	Franslated_Review object Sentiment object Sentiment_Polarity float6 Sentiment_Subjectivity float6 Atype: object	et et 64				
	Dealing with Null values	containg rows, because these rows contains no information	ations.			
[5]:	<pre>playdt=playdt.dropna() playdt</pre>					
[5]:	App  10 Best Foods for You  1 10 Best Foods for You	Translated_Review Sentiment Sentiment I like eat delicious food. That's I'm cooking Positive This help eating healthy exercise regular basis Positive	1.000000 0.250000	0.533333 0.288462		
	<ul> <li>3 10 Best Foods for You</li> <li>4 10 Best Foods for You</li> <li>5 10 Best Foods for You</li> </ul>	Works great especially going grocery store Positive  Best idea us Positive  Best way Positive	0.400000 1.000000 1.000000	0.875000 0.300000 0.300000		
		st ads older many agentsnot much owner po Positive  If photos posted portal load, fit purpose. I'm Positive	 0.173333 0.225000	0.486667 0.447222		
	64226 Housing-Real Estate & Property D 64227 Housing-Real Estate & Property I p	Dumb app, I wanted post property rent give opt Negative property business got link SMS happy perform Positive	-0.287500 0.800000	0.250000 1.000000		
	54230 Housing-Real Estate & Property Us 7427 rows × 5 columns	seless app, I searched flats kondapur, Hydera Negative	-0.316667	0.400000		
[6]: [6]:	playdt.isna().sum()  App 0  Translated_Review 0					
	Franslated_Review 0 Sentiment 0 Sentiment_Polarity 0 Sentiment_Subjectivity 0 Stype: int64					
[7]:	Counts the no of apps playdt["App"].value_counts()					
[7]:	Bowmasters Angry Birds Classic Helix Jump	312 273 273 254				
	Calorie Counter - MyFitnessPal Candy Crush Saga  Fruit Block - Puzzle Legend Free Live Talk-Video Call Calendar+ Schedule Planner App	254 240  1 1				
	Calendar+ Schedule Planner App Caf - Mon Compte Bed Time Fan - White Noise Sleep Name: App, Length: 865, dtype: i	Int64				
[8]:	<pre>dow many unique apps in th playdt["App"].unique() len(playdt["App"].unique())</pre>	ne dataset presents.				
[8]:	Statistical Analysis the Sentii	ment of the apps				
[9]:	playdt["Sentiment"]  Positive					
[9]:	Positive Positive Positive Positive					
	64222 Positive 64223 Positive 64226 Negative 64227 Positive					
0]:	Name: Sentiment, Length: 37427,  levels=playdt.groupby('Sentimen levels					
10]:	App					
	Negative 8271 Neutral 5158 Positive 23998					
11]:	<pre>levels.plot.pie(subplots=True, f. plt.title('Pie Chart for Sentime)</pre>	igsize=(12, 6),autopct='%1.1f%%'); ment Labels of Apps \n',fontsize=21)				
	Pie Chart for Sentiment	Labels of Apps				
	Neutral	Negative Neutral Positive				
	13.8%	Negative 22.1%				
	Арр					
	64.1% Positive					
	Positive Statistical Analysis for Sentin	ment_Polarity				
12]:	playdt["Sentiment_Polarity"].de					
[2]:	count 37427.000000 nean 0.182171 std 0.351318 nin -1.000000 25% 0.000000					
a -	0.150000 75% 0.400000 max 1.000000 Name: Sentiment_Polarity, dtype:	float64				
[3]:	<pre>plt.figure(figsize=(10, 10)) playdt["Sentiment_Polarity"].pl plt.title("Box plot for Sentiment.")</pre>	nt_Polarity \n",fontsize=20);				
	Box plot	for Sentiment_Polarity				
	0.75 -					
	0.50 -					
	0.25 -					
	0.00 -					
	-0.25 - -0.50 -					
	-0.50 <del>-</del>					
	-1.00 -					
	rom the above plot we can see that mar					
4]:	Statistical Analysis for Senting playdt["Sentiment_Subjectivity"					
.4]:	count 37427.000000 mean 0.492770 std 0.259904 min 0.000000					
	0.357143 0.514286 75% 0.650000 nax 1.000000 Name: Sentiment_Subjectivity, dt	type: float64				
5]:	<pre>plt.figure(figsize=(10, 10)) playdt["Sentiment_Subjectivity" plt.title("Box plot for Sentime</pre>	].plot.box(); ent_Subjectivity \n",fontsize=20);				
		Sentiment_Subjectivity				
	1.0 -					
	0.8 -					
	0.6 -					
	0.4 -					
	0.2 -					
	0.0 -					

Play Store Review Data Analysis : Nirnoy Ghosh

In [1]: