<pre>df_test=pd.read_csv('test.csv' df_test.head()</pre>	7 5 17 5 1 5 1	egory Stay_In_Cu B C B C	urrent_City_Years M 2 0 4+ 4+ 1	Marital_Status Pro 1 0 1	duct_Category_1 1 3 5 4 4	Product_Category_2 F 11.0 5.0 14.0 9.0 5.0	Product_Category_3 NaN NaN NaN NaN 12.0	
User_ID Product_ID Gender Age 0 1000004 P00128942 M 46-50 1 1000009 P00113442 M 26-35 2 1000010 P00288442 F 36-45 3 1000010 P00145342 F 36-45 4 1000011 P00053842 F 26-35 # Merge the two DataFrames # we can do either merge or ap # it appends at the bottom	ppend			0				
<pre>df=df_train.append(df_test) df.head() User_ID Product_ID Gender Age 0 1000001 P00069042 F 0-17 1 1000001 P00248942 F 0-17 2 1000001 P00087842 F 0-17 3 1000001 P00085442 F 0-17 4 1000002 P00285442 M 55+</pre> # Basic	Occupation City_Cate 10 10 10 10 10 10	gory Stay_In_Cui A A A A C	rrent_City_Years Ma 2 2 2 2 2 2 4+	arital_Status Prod 0 0 0 0 0	luct_Category_1 P 3 1 12 12 8	roduct_Category_2 Pr NaN 6.0 NaN 14.0 NaN	NaN	Purchase 8370.0 15200.0 1422.0 1057.0 7969.0
df.info() <class #="" 'pandas.core.frame.datafint64index:="" (total="" 0="" 1="" 10="" 12="" 2="" 3="" 4="" 5="" 6="" 7="" 783667="" 8="" 9="" age="" city_category="" column="" columns="" columns)="" data="" entries,="" gender="" marital_status="" occupation="" product_category_1="" product_category_2="" product_category_3<="" product_id="" stay_in_current_city_years="" t="" th="" user_id=""><th>Non-Null Count 783667 non-null 783667 non-null 783667 non-null 783667 non-null 783667 non-null 783667 non-null 783667 non-null</th><th>object object int64 object object int64 int64 float64</th><th></th><th></th><th></th><th></th><th></th><th></th></class>	Non-Null Count 783667 non-null	object object int64 object object int64 int64 float64						
11 Purchase dtypes: float64(3), int64(4), o memory usage: 77.7+ MB df.describe()	550068 non-null object(5) Marital_Status Product_0	float64	uct_Category_2 Pro 537685.000000 9.844506 5.089093 2.000000 5.000000		Purchase 550068.000000 9263.968713 5023.065394 12.000000 5823.000000			
	place=True)				12054.000000 23961.000000 ory_1 Product_Ca 3	tegory_2 Product_Cat NaN 6.0	egory_3 Purchase NaN 8370.0 14.0 15200.0	
3 P00085442 F 0-17	e Gender])	2 2 4+	0 0 0	12 12 8	NaN 14.0 NaN	NaN 1422.0 NaN 1057.0 NaN 7969.0	
Product_ID Gender Age Occupate 0 P00069042 0 0-17 1 P00248942 0 0-17 2 P00087842 0 0-17 3 P00085442 0 0-17 4 P00285442 1 55+ # Handling Categorical feature	10 A 10 A 10 A 10 A 10 A 10 C	y_In_Current_City_	2	us Product_Categ 0 0 0 0 0	3 1 12 12 8	tegory_2 Product_Cat NaN 6.0 NaN 14.0 NaN	egory_3 Purchase NaN 8370.0 14.0 15200.0 NaN 1422.0 NaN 1057.0 NaN 7969.0	
<pre>df.Age.unique() array(['0-17', '55+', '26-35',</pre>	vill be able to unde nal encoding or Tai _first=True)	erstand rget Guiding		-55':6,'55+':7	})			
<pre>1 P00248942</pre>	10 A 10 A 10 A 10 A 10 A 10 C		2 2 2 2 4+	0 0 0 0	3 1 12 12 8	NaN 6.0 NaN 14.0 NaN	NaN 8370.0 14.0 15200.0 NaN 1422.0 NaN 1057.0 NaN 7969.0	
# because if we have 3 categor df_city=pd.get_dummies(df['Cit df_city B C 0 0 0 1 0 0 2 0 0 3 0 0 4 0 1			ient to represe	nt all the 3 c	rategories			
233594 1 0 233595 1 0 233596 1 0 233597 0 1 233598 1 0 783667 rows × 2 columns df=pd.concat([df,df_city],axis df.head()	==1)							
1 P00248942 0 1 2 P00087842 0 1 3 P00085442 0 1	10 A 10 A 10 A 10 A 10 A 10 C	ropped	2 2 2 2	Product_Categ O O O O	ory_1 Product_Car 3 1 12 12 8	NaN 6.0 NaN 14.0 NaN	NaN 8370.0 14.0 15200.0 NaN 1422.0 NaN 1057.0 NaN 7969.0	0 0 0 0 0 0 0 0
df.drop('City_Category',axis=1 df.head() Product_ID Gender Age Occupati Product_ID 0 1	.,inplace= True)		Status Product_Cate 0 0 0 0 0	egory_1 Product_	Category_2 Produ NaN 6.0 NaN 14.0 NaN	NaN 837 14.0 1520 NaN 142 NaN 105	ase B C 0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0 9.0 0 1	
Finding the Missing values df.isnull().sum() Product_ID Gender Age Occupation Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3		em						
## Focusing on replacing missi # Product_Category_2 # For 'Product_Category_2' mis	ecause of the test ang values 245982 545809	data						
<pre># The best way for replacing t # .fillna() function is used t df['Product_Category_2']=df['P df['Product_Category_2'].isnul 0 # For 'Product_Category_3' mis</pre>	ro fill nan values Product_Category_2'							
<pre>df['Product_Category_3'].unique array([nan, 14., 17., 5., 4.,</pre>	16., 15., 8., 9	., 13., 6., 1		_3'].mode()[0])			
<pre>df['Product_Category_3'].isnul 0</pre>].fillna(df['P	roduct_Category					
df.isnull().sum() Product_ID Gender Age Occupation Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3 Purchase B C].fillna(df['P	roduct_Category					
df.isnull().sum() Product_ID Gender Age Occupation Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3 Purchase B C dtype: int64 df.shape (783667, 12) df.head() Product_ID Gender Age Occupation 0 P00069042 0 1 1 P00248942 0 1 2 P00087842 0 1	.1().sum() 0 0 0 0 0 0 0 0 233599 0 0			egory_1 Product_ 3 1 12 12	Category_2 Produ 8.0 6.0 8.0 14.0	16.0 837 14.0 1520 16.0 142	ase B C 0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0	
df.isnull().sum() Product_ID Gender Age Occupation Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3 Purchase B C dtype: int64 df.shape (783667, 12) df.head() Product_ID Gender Age Occupation 1 P00248942 0 1 2 P00087842 0 1 3 P00085442 0 1 4 P00285442 1 7 # There's 4+ in Stay_In_Current # Anything above 4 can be take df['Stay_In_Current_City_Years df.head() <ip></ip>	O O O O O O O O O O O O O O O O O O O	y_Years Marital_S 2 2 2 4+ ed to fix this rent_City_Year The default wal strings whear the strings whear the strings whear the strings wheat the strings where the strings wheat the strings wheat the strings	Status Product_Cate 0 0 0 0 0 0 rs'].str.replace value of regex wear regex=True. ars'].str.replace Status Product_Cate	3 1 12 12 8 8 ('+','') rill change from the control of the contr	8.0 6.0 8.0 14.0 8.0 True to Fals Category_2 Produ	16.0 837 14.0 1520 16.0 142 16.0 105 16.0 796	0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0 9.0 0 1	n, single c
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df.isnull().sum() Product_ID Gender Age Occupation Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3 Purchase B C C dtype: int64 df.shape (783667, 12) df.head() Product_ID Gender Age Occupation 0 P00069042 0 1 1 P00248942 0 1 2 P00087842 0 1 3 P00085442 1 7 # There's 4+ in Stay_In_Current_Anything above 4 can be taken df['Stay_In_Current_City_Years df.head() <ipython-input-44-82959a44b5b1=regular df.head()="" expressions="" ipython-input-44-82959a44b5b1="regular" taf['stay_in_current_c<="" taf['stay_in_current_city_years="" td="" will*not*=""><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 233599 0 0 10 10 10 10 10 10 10 11 10 10 10 10</td><td>y_Years Marital_S 2 2 2 4+ ed to fix this rent_City_Year The default val strings wherent_City_Year y_Years Marital_S 2 2 2 2 4 Years into in rent_City_Year Dtype</td><td>Status Product_Cate 0 0 0 0 0 0 0 0 0 0 0 tegers</td><td>3 1 12 12 8 8 ('+','') rill change from the company of the product of the company of the compa</td><td>8.0 6.0 8.0 14.0 8.0 Category_2 Produ 8.0 6.0 8.0 14.0</td><td>16.0 837 14.0 1520 16.0 142 16.0 105 16.0 796 e in a future vers 16.0 837 14.0 1520 16.0 142 16.0 105</td><td>0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0 9.0 0 1 sion. In addition ase B C 0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0</td><td>n, single c</td></ipython-input-44-82959a44b5b1=regular>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 233599 0 0 10 10 10 10 10 10 10 11 10 10 10 10	y_Years Marital_S 2 2 2 4+ ed to fix this rent_City_Year The default val strings wherent_City_Year y_Years Marital_S 2 2 2 2 4 Years into in rent_City_Year Dtype	Status Product_Cate 0 0 0 0 0 0 0 0 0 0 0 tegers	3 1 12 12 8 8 ('+','') rill change from the company of the product of the company of the compa	8.0 6.0 8.0 14.0 8.0 Category_2 Produ 8.0 6.0 8.0 14.0	16.0 837 14.0 1520 16.0 142 16.0 105 16.0 796 e in a future vers 16.0 837 14.0 1520 16.0 142 16.0 105	0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0 9.0 0 1 sion. In addition ase B C 0.0 0 0 0.0 0 0 2.0 0 0 7.0 0 0	n, single c
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