

Customer Sentiment Analysis and Feedback Insights

```
In [2]: #Import Libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
```

```
In [3]: #Data Collection
df=pd.read_csv('purchase behaviou dataset.csv.zip',encoding='unicode_escape')
```

```
In [4]: df.head()
```

```
Out[4]:
```

	LYLTY_CARD_NBR	LIFESTAGE	PREMIUM_CUSTOMER
0	1000	YOUNG SINGLES/COUPLES	Premium
1	1002	YOUNG SINGLES/COUPLES	Mainstream
2	1003	YOUNG FAMILIES	Budget
3	1004	OLDER SINGLES/COUPLES	Mainstream
4	1005	MIDAGE SINGLES/COUPLES	Mainstream

```
In [5]: pd.isnull(df).sum()
```

```
Out[5]: LYLTY_CARD_NBR      0
LIFESTAGE      0
PREMIUM_CUSTOMER      0
dtype: int64
```

```
In [6]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 72637 entries, 0 to 72636
Data columns (total 3 columns):
#   Column          Non-Null Count  Dtype
---  -
0   LYLTY_CARD_NBR   72637 non-null  int64
1   LIFESTAGE        72637 non-null  object
2   PREMIUM_CUSTOMER 72637 non-null  object
dtypes: int64(1), object(2)
memory usage: 1.7+ MB
```

```
In [7]: df.describe()
```

```
Out[7]:
```

	LYLTY_CARD_NBR
count	7.263700e+04
mean	1.361859e+05
std	8.989293e+04
min	1.000000e+03
25%	6.620200e+04
50%	1.340400e+05
75%	2.033750e+05
max	2.373711e+06

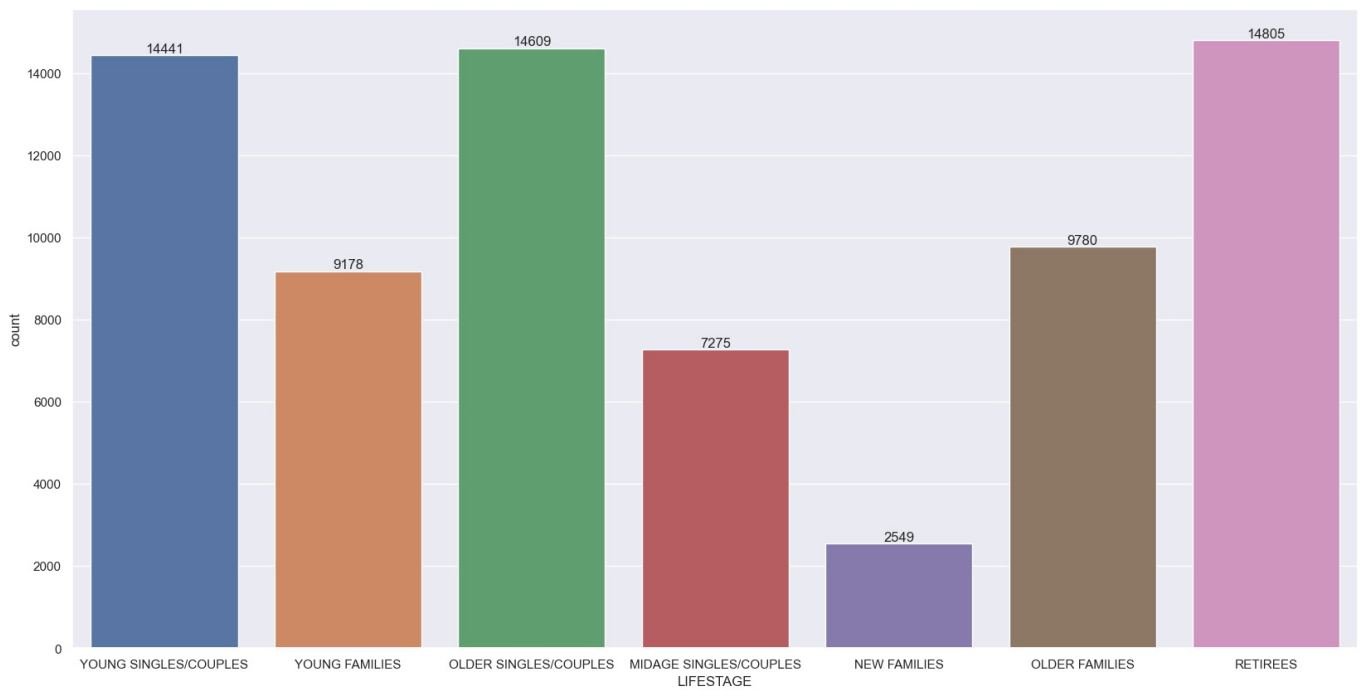
```
In [20]: df.shape
```

```
Out[20]: (72637, 3)
```

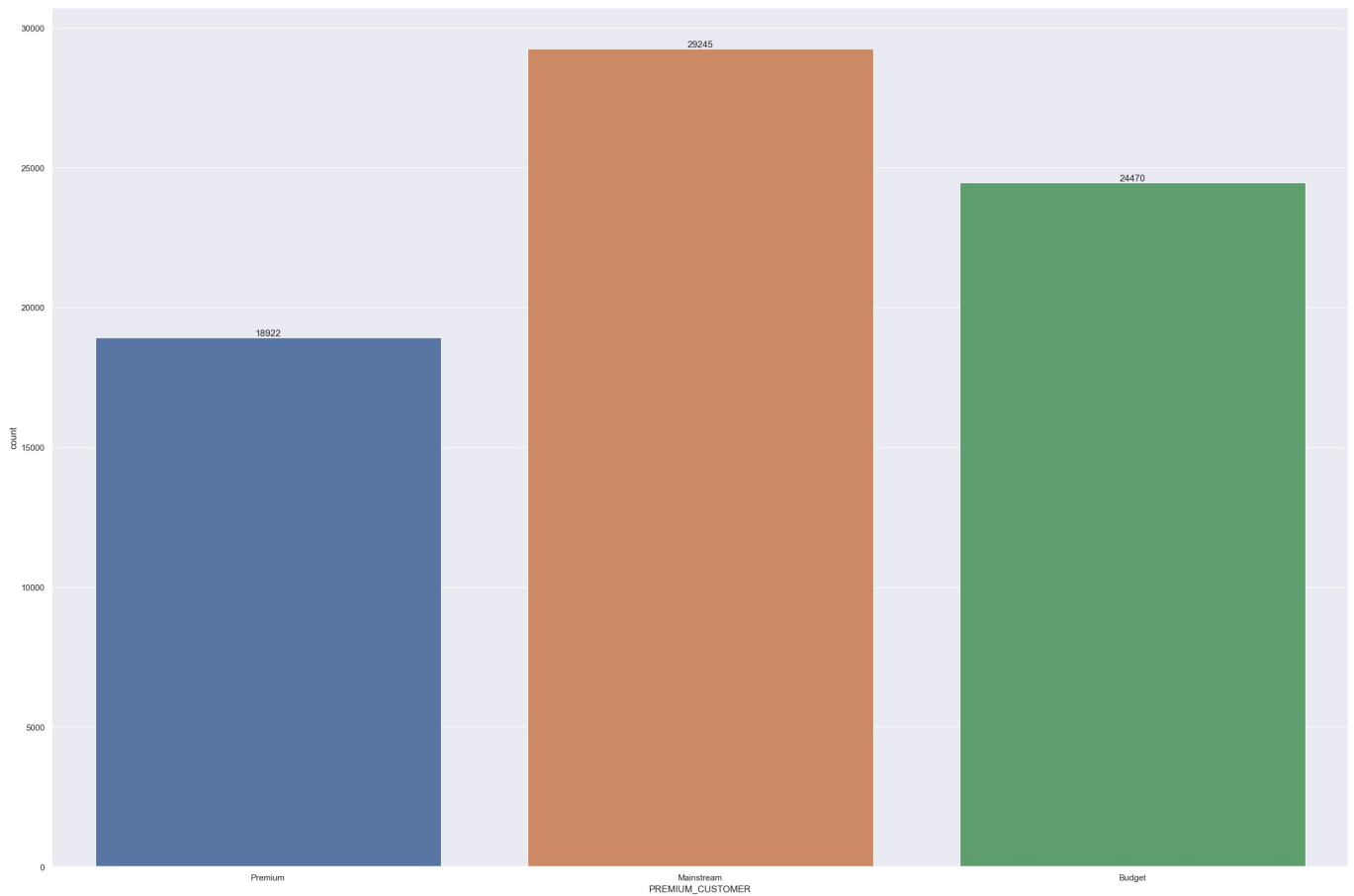
```
In [9]: #Data Visualization
df.columns
```

```
Out[9]: Index(['LYLTY_CARD_NBR', 'LIFESTAGE', 'PREMIUM_CUSTOMER'], dtype='object')
```

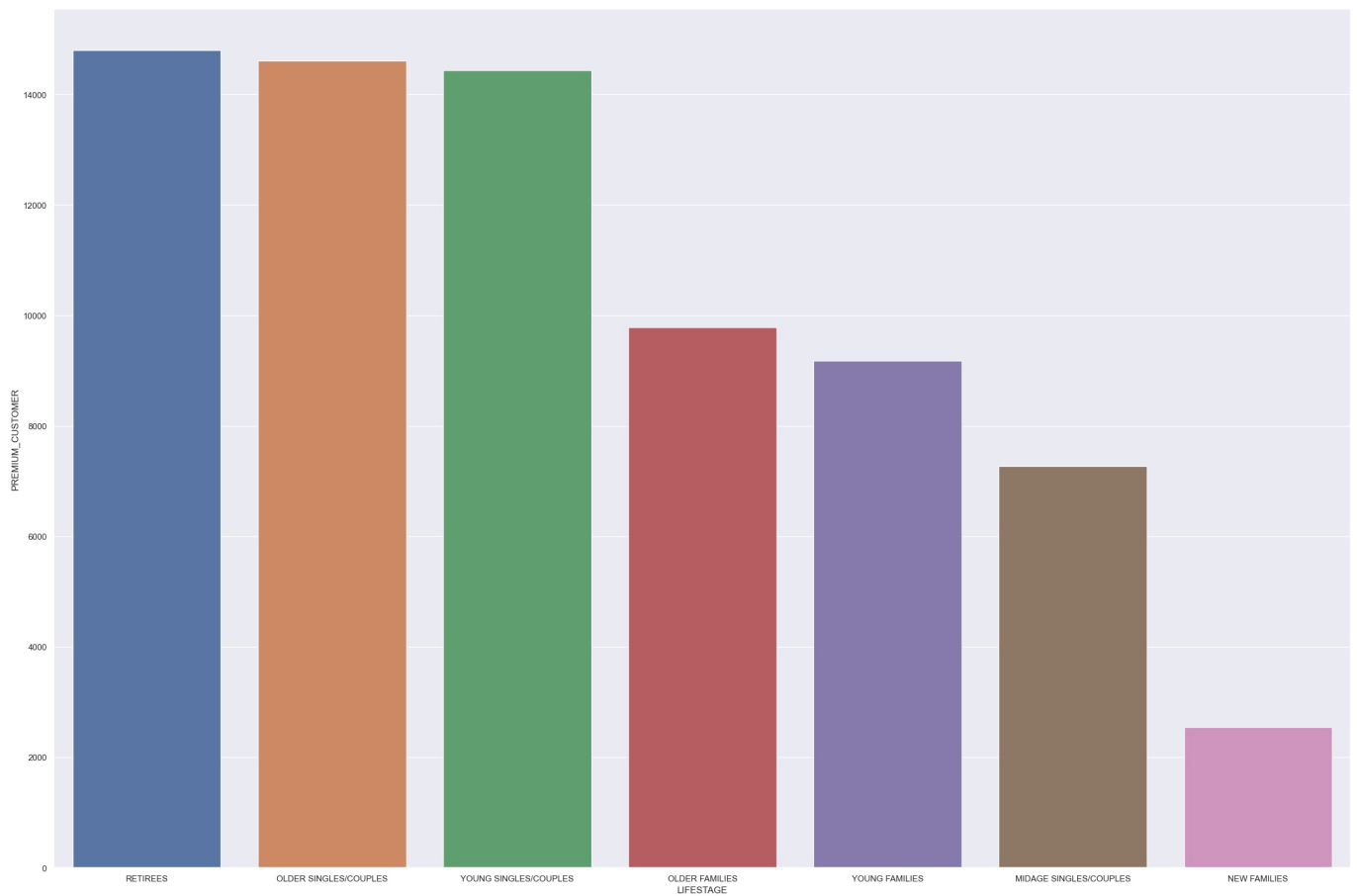
```
In [14]: ax=sns.countplot(x='LIFESTAGE',data=df)
sns.set(rc={'figure.figsize':(30,20)})
for bars in ax.containers:
    ax.bar_label(bars)
```



```
In [16]: ax=sns.countplot(x='PREMIUM_CUSTOMER',data=df)
sns.set(rc={'figure.figsize':(10,5)})
for bars in ax.containers:
    ax.bar_label(bars)
```



```
In [19]: lifestyle_customer=df.groupby(['LIFESTAGE'],as_index=False)['PREMIUM_CUSTOMER'].count().sort_values(by='PREMIUM_CUSTOMER')
sns.barplot(x='LIFESTAGE',y='PREMIUM_CUSTOMER',data= lifestyle_customer)
sns.set(rc={'figure.figsize':(30,25)})
```



THANK YOU!

CONNECT WITH ME:

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GitHub: <https://github.com/DATAPREDICTS>

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