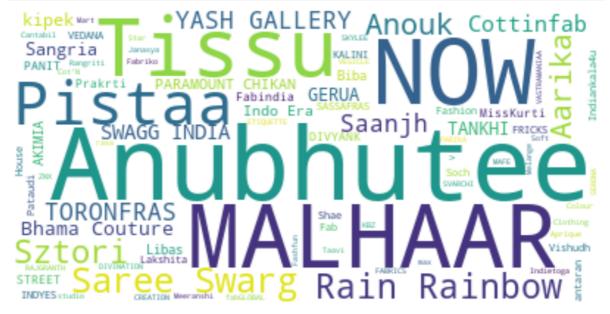
Fashion_Recommendation_System_using_Pytl

```
In [1]:
        import numpy as np
        import pandas as pd
        from sklearn.metrics.pairwise import cosine_similarity
         import matplotlib.pyplot as plt
        from wordcloud import WordCloud, STOPWORDS, ImageColorGenerator
        from nltk.corpus import stopwords
         import string
         data = pd.read_csv("Myntra kurtis.csv")
        print(data.head())
               Brand Name
                                                                  Product URL
           Rain & Rainbow
                           https://www.myntra.com/kurtis/rain--rainbow/ra...
        1
                 HERE&NOW https://www.myntra.com/kurtis/herenow/herenow-...
                    Anouk https://www.myntra.com/kurtis/anouk/anouk-wome...
        3
                Anubhutee https://www.myntra.com/kurtis/anubhutee/anubhu...
        4
                    GERUA https://www.myntra.com/kurtis/gerua/gerua-wome...
                                                        Image Product Ratings
        0 https://assets.myntassets.com/dpr_2,q_60,w_210...
        1 https://assets.myntassets.com/dpr_2,q_60,w_210...
                                                                           4.2
        2 https://assets.myntassets.com/dpr_2,q_60,w_210...
                                                                           4.2
        3 https://assets.myntassets.com/dpr_2,q_60,w_210...
                                                                           4.3
        4 https://assets.myntassets.com/dpr_2,q_60,w_210...
                                                                           4.2
           Number of ratings
                                                            Product Info \
        0
                                               Printed Pure Cotton Kurti
                          28
        1
                         805
                                    Embroidered Pure Cotton A-Line Kurti
        2
                        2800 Printed Pure Cotton Indigo Anarkali Kurta
        3
                        1100
                                             Ethnic Motifs Printed Kurti
                                             Ethnic Motifs Printed Kurti
        4
                         157
           Selling Price
                          Price
                                   Discount
        0
                   837.0 1395.0 (40% OFF)
        1
                   719.0 1799.0 (60% OFF)
        2
                   594.0 1699.0 (65% OFF)
        3
                   521.0
                          1739.0
                                  (70% OFF)
                   449.0 1499.0
                                  (70% OFF)
In [2]:
        print(data.isnull().sum())
        Brand Name
                               0
        Product URL
        Image
                              467
        Product Ratings
                             198
        Number of ratings
                               0
        Product Info
                               0
                               74
        Selling Price
        Price
                               74
        Discount
                               74
        dtype: int64
        data = data.drop("Image", axis=1)
In [4]:
        data =
                data.dropna()
```

So there are 364 rows present in the dataset after removing the null values. Now let's move forward by looking at the brands that sell Kurtis more on Myntra:



```
In [7]:
        highest rated = data.sort values(by=["Product Ratings"],
                                          ascending=False)
         highest_rated = highest_rated.head(10)
         print(highest_rated[['Product Info', "Product Ratings", "Brand Name"]])
                                 Product Info Product Ratings
                                                                       Brand Name
        435
                        Mandarin Collar Kurti
                                                            5.0
                                                                           INDYES
        249
                 Floral Printed Kaftan Kurta
                                                            5.0
                                                                          Sangria
        448
                      Solid Pure Cotton Kurti
                                                            5.0
                                                                          MALHAAR
        308
                         Floral Printed Kurti
                                                            5.0
                                                                          MALHAAR
                            Pure Cotton Kurti
        538
                                                            5.0
                                                                          MALHAAR
               Women Solid Embellished Kurti
        277
                                                            5.0
                                                                         Fabindia
        515
                 Chikankari Embroidered Kurti
                                                            5.0
                                                                PARAMOUNT CHIKAN
                 Ethnic Motifs Printed Kurti
                                                            4.9
        62
                                                                             Biba
        80
              Ethnic Motifs Embroidered Kurti
                                                            4.8
                                                                          Sangria
        450
                 Self Striped Straight Kurti
                                                            4.8
                                                                           Saanjh
        mr = data['Product Ratings'].mean()
In [8]:
        m = data['Number of ratings'].quantile(0.9)
         n = data['Number of ratings']
         a = data['Product Ratings']
         data["Score"] = (n/(n+m) * a) + (m/(m+n) * mr)
```

'Product Ratings', 'Score',

'Selling Price', 'Discount']].head(10))

print(recommendations[['Brand Name', 'Product Info',

recommendations = data.sort_values('Score', ascending=False)

	Brand Name			Product Info	\
48	Tissu	Women Floral Print A-Line Kurt			
11	Anubhutee	Ethnic Motifs Printed Kurt			
155	Anubhutee	Women Printed Kur			
66	YASH GALLERY	Printed A		Printed A-Line Kurti	
27	Anubhutee	Women Printed Straight Kurti			
102	AKIMIA	Embroidered Pure Cotton Kurti			
88	Tissu	Women Floral Printed Straight Kurti			
3	Anubhutee	Ethnic Motifs Printed Kurti			
42	Rain & Rainbow	Women Prin	ted Pure Cotton	Pure Cotton A-Line K	
18	GERUA		Eth	nic Motifs Printed Kurti	
	Product Ratings	Score	Selling Price	Discount	
48	4.4	4.338320	549.0	(45% OFF)	
11	4.4	4.300868	521.0	(70% OFF)	
155	4.4	4.296895	486.0	(72% OFF)	
66	4.5	4.295568	629.0	(55% OFF)	
27	4.3	4.274815	521.0	(70% OFF)	
102	4.5	4.273667	767.0	(52% OFF)	
88	4.3	4.267992	548.0	(39% OFF)	
3	4.3	4.267992	521.0	(70% OFF)	
42	4.4	4.264685	797.0	(50% OFF)	
18	4.6	4.262359	449.0	(70% OFF)	

So this is how you can create a fashion recommendation system using Python.

A fashion recommendation system is an application that recommends the most trending fashion based on the user's search query. Myntra is one of the popular e-commerce platforms known for its fashion recommendations. I hope you liked this article on building a fashion recommendation system using Python.

THANK YOU!

GitHub Link: https://github.com/anujtiwari21? tab=repositories