The Power of Instagram!

Data Cleaning

Hashtags	Caption	_						
beautiful, summer, fashion, love, cute, food,	We were born to be REAL, not to be perfect		Hashtags	Caption				
teen, model,	teen, model, Gotta run, but first,							
brunette, selfie, hollister, snap	runette, selfie, let me take selfie.							
Hollister, Shap	IVIC		22	30				
alexandani, cute,	dress to							
Ilbean, beanboots,	impress\U0001f457		29	39				
anthropol	Impress/600011401		29	53				
alexandani, cute,			20	00				
Ilbean, beanboots,	dress to impress\U0001f457		30	70				
anthropol	anthropol							
abercrombieandfitch,	#love #shopping							
shopping, love,	#shoppen #hollister							
hollister	#abercro							

Data Cleaning

Anger	Contempt	Disgust	Fear	Happiness	Neutral	Sadness	Surprise
0.083862	0.015089	0.000583	0.000026	0.000017	0.890586	0.009657	0.000181
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
0.064922	0.005743	0.008687	0.011182	0.002374	0.220634	0.002961	0.683498



Emotion	Emotion_value
Neutral	0.890586
NaN	0.000000
NaN	0.000000
NaN	0.000000
Surprise	0.683498



Emotion_Anger	Emotion_Happiness	Emotion_Neutral	Emotion_Sadness	Emotion_Surprise
0.0	0.0	0.89	0.0	0.00
0.0	0.0	0.00	0.0	0.00
0.0	0.0	0.00	0.0	0.00
0.0	0.0	0.00	0.0	0.00
0.0	0.0	0.00	0.0	0.68

Data Cleaning

Userld

0	1171579752855683619_	_212070047
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- 1171594777274371222_176762322
- 1171407552643586413_581125501
- 1171407552643586413_581125501
- 1171508187966229230_2797323089

	Userld	PostId
0	212070047	1171579752855683619
1	1465589112	1171599907010659566
2	1477200908	1171567950101886268
3	1477200908	1171514703597155774
4	298780473	1171194809692940825

Web Scraping

```
ntrée [40]: from selenium import webdriver
            from bs4 import BeautifulSoup
            driver= webdriver.Chrome(r'C:\Program Files (x86)\Google\Chrome\Application\chromedriver.exe')
             followers=[]
             for i in Brands:
                j=Brands[i]
                url='https://www.instagram.com/'+str(j)
                driver.get(url)
                soup = BeautifulSoup(driver.page source, "lxml")
                for item in soup.select('a.-nal3>span.g47SY'):
                    followers.append(item)
             followers
   Out[40]: [<span class="g47SY">2 575</span>,
             <span class="g47SY" title="4 429 473">4,4m</span>,
             <span class="g47SY">240</span>,
             <span class="g47SY">1 017</span>,
             <span class="g47SY" title="2 790 522">2,7m</span>,
             <span class="g47SY">0</span>,
             <span class="g47SY">3 637</span>,
             <span class="g47SY" title="8 998 663">8,9m</span>,
```

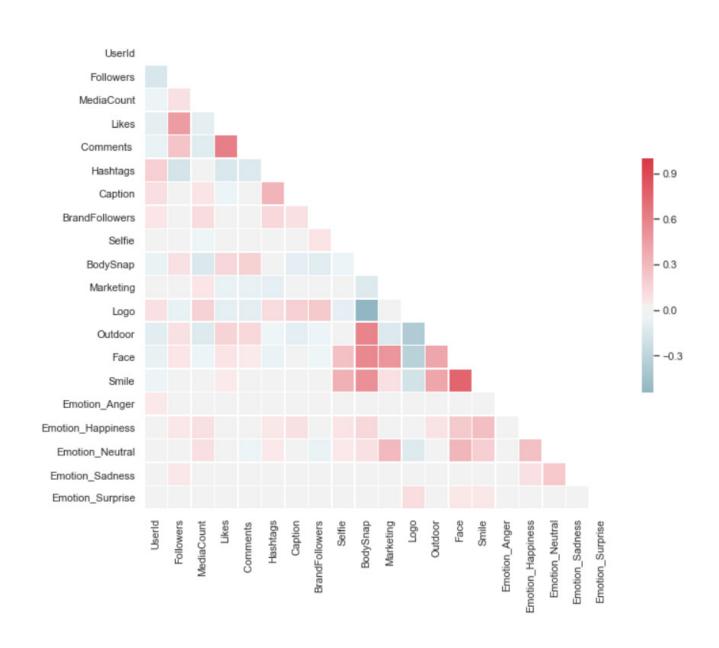


BrandName	BrandCategory	BrandFollowers
Brioni	Small couture	256 072
Topshop	High street	9 985 978
Ermenegildozegna	Small couture	598 489
Isabelmarant	Designer	1 677 342
Tiffany	Mega couture	11 113 807

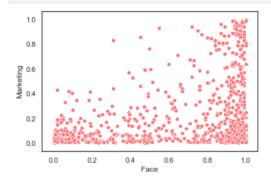
Aggregation by User Id

	Userld	Followers	MediaCount	Likes	Comments	Hashtags	Caption	BrandName	BrandFollowers	Selfie	. Marketing	Logo	Outdoor	Face	Smile	Emotion_Anger	Emotion_Happiness	Emotion_Neutral	Emotion_Sadness	Emotion_Surprise
0	20922	27341.0	2392.0	302.0	18.0	24.0	63.0	Urbanoutfitters	8977868.0	0.00	. 0.02	0.46	0.02	0.01	0.01	0.0	0.0	0.00	0.0	0.0
1	90221	18165.0	25706.0	32.0	0.0	27.0	31.0	Ermenegildozegna	598489.0	0.00	. 0.51	0.11	0.13	0.83	0.05	0.0	0.0	0.97	0.0	0.0
2	98546	36269.0	2483.0	495.0	3.0	5.0	24.0	Acnestudios	2790522.0	0.09	. 0.01	0.11	0.03	0.24	0.07	0.0	0.0	0.00	0.0	0.0
3	102135	21691.0	1531.0	364.0	2.0	6.0	45.0	Burberry	16108823.0	0.45	. 0.18	0.72	0.04	0.95	0.52	0.0	1.0	0.00	0.0	0.0
4	359370	36113.0	2066.0	450.0	52.0	5.0	31.0	Vince	327184.0	0.00	. 0.19	0.09	0.45	0.79	0.09	0.0	0.0	0.00	0.0	0.0

Correlations



sns.scatterplot(data=data2,x=data2.Face[data2.Face!=0],y=data2.Marketing[data2.Marketing!=0],color='#ff7276');



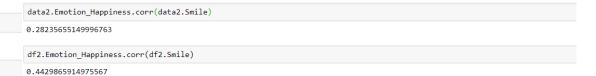
data2.Face[data2.Face!=0].corr(data2.Marketing[data2.Marketing!=0])

0.4530398943921814

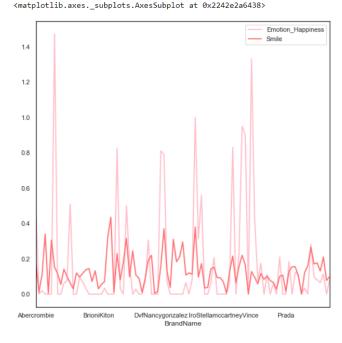
df.Face[df.Face!=0].corr(df.Marketing[df.Marketing!=0])

0.47898456001518364

Correlation Between Marketing & Face



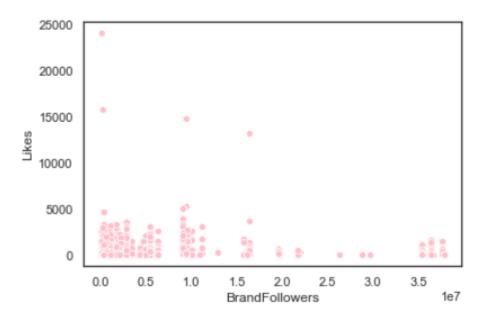
data2.groupby('BrandName')[['Emotion_Happiness','Smile']].mean().plot(figsize=[9,9],color=['pink','#ff7276'],linewidth=2)



No Correlation Between Smile & Happiness

sns.scatterplot(x='BrandFollowers',y='Likes',data=data2,color='pink')

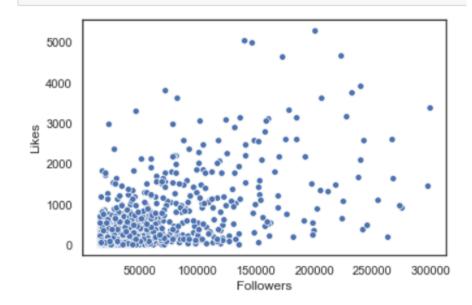
<matplotlib.axes._subplots.AxesSubplot at 0x22446b39390>



Correlation Between Brand Followers & Likes

Correlation Between Followers & Likes

sns.scatterplot(data=data2,x='Followers',y='Likes');



data2.Likes.corr(data2.Followers)

0.5898973328690647

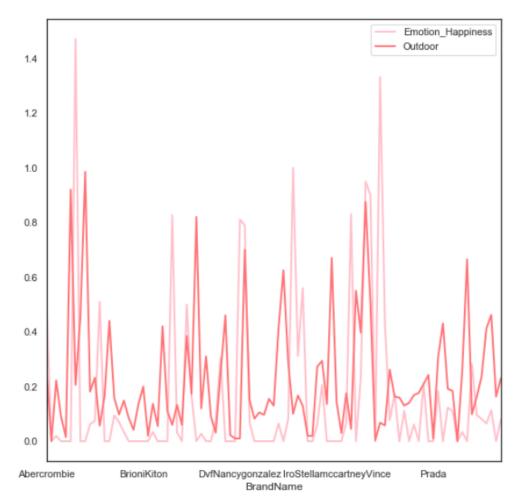
df.Likes.corr(df.Followers)

0.867658801811564

No Correlation Between Happiness & Outdoor

data2.groupby('BrandName')[['Emotion_Happiness','Outdoor']].mean().plot(figsize=[9,9],color=['pink','#ff7276'],linewidth=2)

<matplotlib.axes._subplots.AxesSubplot at 0x2243629dfd0>



df2.Emotion_Happiness.corr(df2.Outdoor)

No Correlation Between Brand Followers & Happiness Level in Publications

