

```
In [1]: 1 import pandas as pd
        2 import numpy as np
        3 import matplotlib.pyplot as plt
        4 %matplotlib inline
        5 import warnings
        6 warnings.filterwarnings('ignore')
```

```
In [2]: 1 df1 = pd.read_csv("Documents/Reactions.csv", index_col = 0)
```

```
In [3]: 1 df1
```

```
Out[3]:
```

	Content ID	User ID	Type	Datetime
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	NaN	NaN	2021-04-22 15:17:15
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	5d454588-283d-459d-915d-c48a2cb4c27f	disgust	2020-11-07 09:43:50
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	92b87fa5-f271-43e0-af66-84fac21052e6	dislike	2021-06-17 12:22:51
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	163daa38-8b77-48c9-9af6-37a6c1447ac2	scared	2021-04-18 05:13:58
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	34e8add9-0206-47fd-a501-037b994650a2	disgust	2021-01-06 19:13:01
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	80c9ce48-46f9-4f5e-b3ca-3b698fc2e949	dislike	2020-06-27 09:46:48
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	2bd9c167-e06c-47c1-a978-3403d6724606	intrigued	2021-02-16 17:17:02
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	NaN	interested	2020-09-12 03:54:58
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	5ffd8b51-164e-47e2-885e-8b8c46eb63ed	worried	2020-11-04 20:08:31
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	4edc3d1a-a7d9-4db6-89c3-f784d9954172	cherish	2021-01-04 04:55:11

25553 rows × 4 columns

```
In [4]: 1 df2 = pd.read_csv('Documents/ReactionTypes.csv', index_col = 0)
```

In [5]:

```
1 df2
```

Out[5]:

	Type	Sentiment	Score
0	heart	positive	60
1	want	positive	70
2	disgust	negative	0
3	hate	negative	5
4	interested	positive	30
5	indifferent	neutral	20
6	love	positive	65
7	super love	positive	75
8	cherish	positive	70
9	adore	positive	72
10	like	positive	50
11	dislike	negative	10
12	intrigued	positive	45
13	peeking	neutral	35
14	scared	negative	15
15	worried	negative	12

In [6]:

```
1 df3 = pd.read_csv('Documents/Content.csv',index_col=0)
```

In [7]:

1 df3

Out[7]:

	Content ID	User ID	Type	Category	URL
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	9f737e0a-3cdd-4d29-9d24-753f4e3be810	beb1f34e-7870-46d6-9fc7-2e12eb83ce43	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/9f7...
2	230c4e4d-70c3-461d-b42c-ec09396efb3f	a5c65404-5894-4b87-82f2-d787cbee86b4	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/230...
3	356fff80-da4d-4785-9f43-bc1261031dc6	9fb4ce88-fac1-406c-8544-1a899cee7aaf	photo	technology	https://socialbuzz.cdn.com/content/storage/356...
4	01ab84dd-6364-4236-abbb-3f237db77180	e206e31b-5f85-4964-b6ea-d7ee5324def1	video	food	https://socialbuzz.cdn.com/content/storage/01a...
...
995	b4cef9ef-627b-41d7-a051-5961b0204ebb	5b62e10e-3c19-4d28-a57c-e9bdc3d6758d	video	public speaking	NaN
996	7a79f4e4-3b7d-44dc-bdef-bc990740252c	4fe420fa-a193-4408-bd5d-62a020233609	GIF	technology	https://socialbuzz.cdn.com/content/storage/7a7...
997	435007a5-6261-4d8b-b0a4-55fdc189754b	35d6a1f3-e358-4d4b-8074-05f3b7f35c2a	audio	veganism	https://socialbuzz.cdn.com/content/storage/435...
998	4e4c9690-c013-4ee7-9e66-943d8cbd27b7	b9bcd994-f000-4f6b-87fc-caae08acfaa1	GIF	culture	https://socialbuzz.cdn.com/content/storage/4e4...
999	75d6b589-7fae-4a6d-b0d0-752845150e56	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...

1000 rows × 5 columns

In [8]:

1 df1.shape #Reactions

Out[8]: (25553, 4)

```
In [9]: 1 df2.shape #Reactiontypes
```

```
Out[9]: (16, 3)
```

```
In [10]: 1 df3.shape #Content
```

```
Out[10]: (1000, 5)
```

```
In [11]: 1 df4 = df1.merge(df3,how = 'left',on =['Content ID'])
```

In [12]:

1df4

Out[12]:

	Content ID	User ID_x	Type_x	Datetime	User ID_y	Type_y	Category	
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	NaN	NaN	2021-04-22 15:17:15	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	5d454588-283d-459d-915d-c48a2cb4c27f	disgust	2020-11-07 09:43:50	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	92b87fa5-f271-43e0-af66-84fac21052e6	dislike	2021-06-17 12:22:51	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	163daa38-8b77-48c9-9af6-37a6c1447ac2	scared	2021-04-18 05:13:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	34e8add9-0206-47fd-a501-037b994650a2	disgust	2021-01-06 19:13:01	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	80c9ce48-46f9-4f5e-b3ca-3b698fc2e949	dislike	2020-06-27 09:46:48	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	2bd9c167-e06c-47c1-a978-3403d6724606	intrigued	2021-02-16 17:17:02	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	NaN	interested	2020-09-12 03:54:58	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	5ffd8b51-164e-47e2-885e-8b8c46eb63ed	worried	2020-11-04 20:08:31	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	4edc3d1a-a7d9-4db6-89c3-f784d9954172	cherish	2021-01-04 04:55:11	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https

25553 rows × 8 columns

In [13]:

1df4.shape

Out[13]: (25553, 8)

In [14]:

1df4.drop('User ID_x',axis = 1,inplace = True)

In [15]:

```
1 df4
```

Out[15]:

	Content ID	Type_x	Datetime	User ID_y	Type_y	Category	
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	NaN	2021-04-22 15:17:15	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://socialbuzz.cdn.con
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://socialbuzz.cdn.con
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://socialbuzz.cdn.con
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://socialbuzz.cdn.con
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://socialbuzz.cdn.con
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://socialbuzz.cdn.con
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://socialbuzz.cdn.con
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	interested	2020-09-12 03:54:58	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://socialbuzz.cdn.con
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://socialbuzz.cdn.con
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://socialbuzz.cdn.con

25553 rows × 7 columns



In [16]:

```
1 df4.rename(columns = {'Type_x':'Reaction_Type','Type_y':'Content_type','User
```

In [17]:

1df4

Out[17]:

	Content ID	Reaction_Type	Datetime	User ID	Content_type	Category	
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	NaN	2021-04-22 15:17:15	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	interested	2020-09-12 03:54:58	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social

25553 rows × 7 columns



In [18]:

1df5 = df4.merge(df2,how = 'left',left_on='Reaction_Type',right_on='Type')

In [19]:

1df5.drop('Type',inplace = True,axis = 1)

In [20]:

1df5

Out[20]:

	Content ID	Reaction_Type	Datetime	User ID	Content_type	Category	
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	NaN	2021-04-22 15:17:15	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	https://social
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	interested	2020-09-12 03:54:58	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	https://social

25553 rows × 9 columns

In [21]:

1df5.drop('URL',inplace = True,axis =1)

In [22]:

1df5.shape

Out[22]: (25553, 8)

In [23]: 1 finalised_dataset = df5.dropna(subset=['Score']) *#dropping rows where values*

In [24]: 1 finalised_dataset.shape

Out[24]: (24573, 8)

In [25]: 1 finalised_dataset

Out[25]:

	Content ID	Reaction_Type	Datetime	User ID	Content_type	Category	Sentiment
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	negative
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	negative
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	negative
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	negative
5	97522e57-d9ab-4bd6-97bf-c24d952602d2	interested	2020-08-23 12:25:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	Studying	positive
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	negative
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	positive
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	interested	2020-09-12 03:54:58	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	positive
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	negative
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	technology	positive

24573 rows × 8 columns

```
In [26]: 1 finalised_dataset['Category'].unique()
```

```
Out[26]: array(['Studying', 'healthy eating', 'technology', 'food', 'cooking',
                'dogs', 'soccer', 'public speaking', 'science', 'tennis', 'travel',
                'fitness', 'education', 'studying', 'veganism', 'Animals',
                'animals', 'culture', '"culture"', 'Fitness', '"studying"',
                'Veganism', '"animals"', 'Travel', '"soccer"', 'Education',
                '"dogs"', 'Technology', 'Soccer', 'Culture', '"food"', 'Food',
                '"technology"', 'Healthy Eating', '"cooking"', 'Science',
                '"public speaking"', '"veganism"', 'Public Speaking', '"science"',
                dtype=object)
```

```
In [27]: 1 finalised_dataset['Category'] = finalised_dataset['Category'].str.upper()
```

```
In [28]: 1 finalised_dataset['Category'].unique()
```

```
Out[28]: array(['STUDYING', 'HEALTHY EATING', 'TECHNOLOGY', 'FOOD', 'COOKING',
                'DOGS', 'SOCCER', 'PUBLIC SPEAKING', 'SCIENCE', 'TENNIS', 'TRAVEL',
                'FITNESS', 'EDUCATION', 'VEGANISM', 'ANIMALS', 'CULTURE',
                '"CULTURE"', '"STUDYING"', '"ANIMALS"', '"SOCCER"', '"DOGS"',
                '"FOOD"', '"TECHNOLOGY"', '"COOKING"', '"PUBLIC SPEAKING"',
                '"VEGANISM"', '"SCIENCE"', dtype=object)
```

```
In [29]: 1 finalised_dataset['Category'] = finalised_dataset['Category'].str.replace('"'
2         finalised_dataset['Category'].unique())
```

```
Out[29]: array(['STUDYING', 'HEALTHY EATING', 'TECHNOLOGY', 'FOOD', 'COOKING',
                'DOGS', 'SOCCER', 'PUBLIC SPEAKING', 'SCIENCE', 'TENNIS', 'TRAVEL',
                'FITNESS', 'EDUCATION', 'VEGANISM', 'ANIMALS', 'CULTURE'],
                dtype=object)
```

```
In [30]: 1 finalised_dataset['Category'].nunique()
```

```
Out[30]: 16
```

```
In [31]: 1 finalised_dataset['Category'].value_counts().head()
```

```
Out[31]: ANIMALS          1897
          SCIENCE         1796
          HEALTHY EATING  1717
          FOOD            1699
          TECHNOLOGY      1698
          Name: Category, dtype: int64
```

In [32]: 1 finalised_dataset

Out[32]:

	Content ID	Reaction_Type	Datetime	User ID	Content_type	Category	Sentiment
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	STUDYING	negat
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	STUDYING	negat
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	STUDYING	negat
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	STUDYING	negat
5	97522e57-d9ab-4bd6-97bf-c24d952602d2	interested	2020-08-23 12:25:58	8d3cd87d-8a31-4935-9a4f-b319bfe05f31	photo	STUDYING	posit
...
25548	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	TECHNOLOGY	negat
25549	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	TECHNOLOGY	posit
25550	75d6b589-7fae-4a6d-b0d0-752845150e56	interested	2020-09-12 03:54:58	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	TECHNOLOGY	posit
25551	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	TECHNOLOGY	negat
25552	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	b8c653b5-0118-4d7e-9bde-07c2de90f0ff	audio	TECHNOLOGY	posit

24573 rows × 8 columns

In [33]: 1 finalised_dataset.to_csv('Finalised_dataset.csv')

```
In [34]: 1 finalised_dataset.groupby('Category').sum().sort_values(by = 'Score',ascendi
```

```
Out[34]:
```

Score	
Category	
<hr/>	
ANIMALS	74965.0
SCIENCE	71168.0
HEALTHY EATING	69339.0
TECHNOLOGY	68738.0
FOOD	66676.0

```
In [35]: 1 case_study = finalised_dataset.groupby('Category').sum().sort_values(by = 'S
```

```
In [36]: 1 type(case_study)
```

```
Out[36]: pandas.core.frame.DataFrame
```

```
In [37]: 1 case_study.columns
```

```
Out[37]: Index(['Score'], dtype='object')
```

```
In [38]: 1 case_study.reset_index(inplace= True)
```

```
In [39]: 1 case_study
```

```
Out[39]:
```

	Category	Score
0	ANIMALS	74965.0
1	SCIENCE	71168.0
2	HEALTHY EATING	69339.0
3	TECHNOLOGY	68738.0
4	FOOD	66676.0

```
In [40]: 1 case_study.columns
```

```
Out[40]: Index(['Category', 'Score'], dtype='object')
```

```
In [41]: 1 category = case_study['Category']  
        2 category
```

```
Out[41]: 0          ANIMALS  
        1          SCIENCE  
        2    HEALTHY EATING  
        3          TECHNOLOGY  
        4          FOOD  
        Name: Category, dtype: object
```

```
In [42]: 1 case_study.to_csv('Top 5 Category.csv')
```

```
In [43]: 1 x = list(category)
```

```
In [44]: 1 score = case_study['Score']
```

```
In [45]: 1 score
```

```
Out[45]: 0    74965.0  
        1    71168.0  
        2    69339.0  
        3    68738.0  
        4    66676.0  
        Name: Score, dtype: float64
```

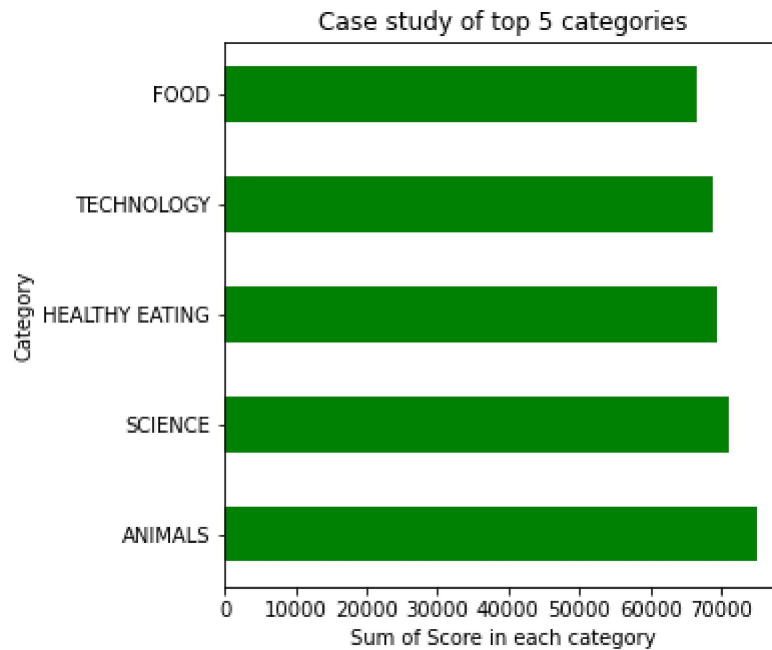
```
In [46]: 1 y = list(score)
```

```
In [48]: 1 print(x)  
        2 print(y)  
  
['ANIMALS', 'SCIENCE', 'HEALTHY EATING', 'TECHNOLOGY', 'FOOD']  
[74965.0, 71168.0, 69339.0, 68738.0, 66676.0]
```

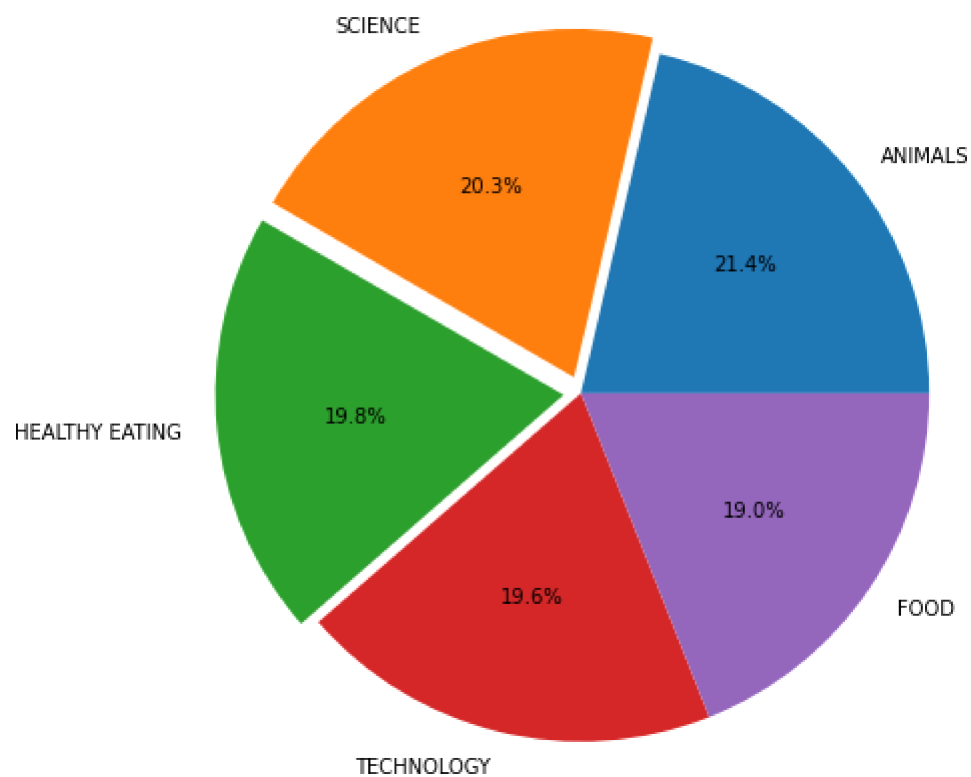
```
In [49]: 1 xpos = np.arange(len(x))  
        2 xpos
```

```
Out[49]: array([0, 1, 2, 3, 4])
```

```
In [50]: 1 plt.figure(figsize=(5,5))
2 plt.xlabel('Sum of Score in each category')
3 plt.ylabel("Category")
4 plt.title('Case study of top 5 categories')
5 plt.xticks(xpos,x)
6 plt.barh(xpos,y,height=0.5,color = 'green')
7 plt.savefig('Barchart.png',bbox_inches="tight", pad_inches=1, transparent=Tr
8 plt.show()
```



```
In [51]: 1 plt.pie(y,labels=x,radius=2, autopct='%0.1f%%', explode=[0,0.1,0.1,0,0])  
2 plt.savefig('Pie_chart.png',bbox_inches="tight", pad_inches=1, transparent=T)  
3 plt.show()
```



```
In [52]: 1 import seaborn as sns
2 plt.title('Popularity Score by Category')
3 plt.xlabel('Category')
4 plt.ylabel('Aggregates of Score')
5 plt.plot(x,y,marker = '*',markerfacecolor = 'Green')
6 plt.savefig('Linechart.png')
```

