healthy fast foods analysis and Classification

In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.cluster import KMeans
from sklearn.model_selection import train_test_split
import matplotlib.pyplot as plt

Data collection

```
In [2]: #loading the dataset in pandas
data = pd.read_csv('fastfood.csv')
```

In [3]: #check first five rows of the dataset
data.head()

Out[3]:

	restaurant	item	calories	cal_fat	total_fat	sat_fat	trans_fat	cholesterol	sodiu
0	Mcdonalds	Artisan Grilled Chicken Sandwich	380	60	7	2.0	0.0	95	11 1
1	Mcdonalds	Single Bacon Smokehouse Burger	840	410	45	17.0	1.5	130	158
2	Mcdonalds	Double Bacon Smokehouse Burger	1130	600	67	27.0	3.0	220	192
3	Mcdonalds	Grilled Bacon Smokehouse Chicken Sandwich	750	280	31	10.0	0.5	155	194
4	Mcdonalds	Crispy Bacon Smokehouse Chicken Sandwich	920	410	45	12.0	0.5	120	198

In [4]: #check last five rows of the dataset data.tail()

Out[4]:

	restaurant	item	calories	cal_fat	total_fat	sat_fat	trans_fat	cholesterol	sodi
510	Taco Bell	Spicy Triple Double Crunchwrap	780	340	38	10.0	0.5	50	1{
511	Taco Bell	Express Taco Salad w/ Chips	580	260	29	9.0	1.0	60	1;
512	Taco Bell	Fiesta Taco Salad-Beef	780	380	42	10.0	1.0	60	1(
513	Taco Bell	Fiesta Taco Salad- Chicken	720	320	35	7.0	0.0	70	1;
514	Taco Bell	Fiesta Taco Salad- Steak	720	320	36	8.0	1.0	55	1(

In [5]: #check shape of the dataset

data.shape

Out[5]: (515, 17)

In [6]: #check columns
data.columns

In [7]: #check basic infomation data.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 515 entries, 0 to 514 Data columns (total 17 columns):

#	Column	Non-Null Count	Dtype
0	restaurant	515 non-null	object
1	item	515 non-null	object
2	calories	515 non-null	int64
3	cal_fat	515 non-null	int64
4	total_fat	515 non-null	int64
5	sat_fat	515 non-null	float64
6	trans_fat	515 non-null	float64
7	cholesterol	515 non-null	int64
8	sodium	515 non-null	int64
9	total_carb	515 non-null	int64
10	fiber	503 non-null	float64
11	sugar	515 non-null	int64
12	protein	514 non-null	float64
13	vit_a	301 non-null	float64
14	vit_c	305 non-null	float64
15	calcium	305 non-null	float64
16	salad	515 non-null	object
dtyp), int64(7), obj	ect(3)
		F. VD	

memory usage: 68.5+ KB

In [8]: #check mathamtic realtionship data.describe()

Out[8]:

	calories	cal_fat	total_fat	sat_fat	trans_fat	cholesterol	sod
count	515.000000	515.000000	515.000000	515.000000	515.000000	515.000000	515.000
mean	530.912621	238.813592	26.590291	8.153398	0.465049	72.456311	1246.737
std	282.436147	166.407510	18.411876	6.418811	0.839644	63.160406	689.954
min	20.000000	0.000000	0.000000	0.000000	0.000000	0.000000	15.000
25%	330.000000	120.000000	14.000000	4.000000	0.000000	35.000000	800.000
50%	490.000000	210.000000	23.000000	7.000000	0.000000	60.000000	1110.000
75 %	690.000000	310.000000	35.000000	11.000000	1.000000	95.000000	1550.000
max	2430.000000	1270.000000	141.000000	47.000000	8.000000	805.000000	6080.000

In [9]: #check corr realtion of the dataset data.corr()

/var/folders/qn/zzvcdwg51dzdyg67zv6vp9lw0000gn/T/ipykernel_1054/35 39882025.py:2: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.

data.corr()

Out [9]:

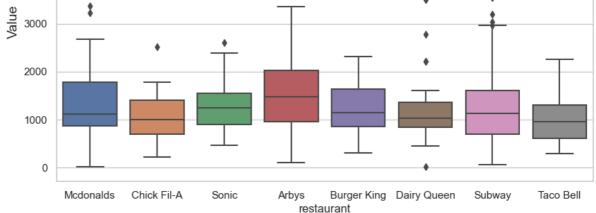
	calories	cal_fat	total_fat	sat_fat	trans_fat	cholesterol	sodium	tc
calories	1.000000	0.901661	0.900494	0.739664	0.530354	0.762460	0.817855	
cal_fat	0.901661	1.000000	0.995311	0.852150	0.648422	0.803997	0.670458	
total_fat	0.900494	0.995311	1.000000	0.846716	0.648821	0.801352	0.669182	
sat_fat	0.739664	0.852150	0.846716	1.000000	0.812126	0.764030	0.487456	
trans_fat	0.530354	0.648422	0.648821	0.812126	1.000000	0.680858	0.261466	
cholesterol	0.762460	0.803997	0.801352	0.764030	0.680858	1.000000	0.596164	
sodium	0.817855	0.670458	0.669182	0.487456	0.261466	0.596164	1.000000	
total_carb	0.712701	0.419373	0.422543	0.276534	0.100284	0.238728	0.671976	
fiber	0.287031	0.032643	0.036386	-0.041220	-0.121890	-0.061503	0.301023	
sugar	0.437711	0.255485	0.259370	0.234218	0.112651	0.298259	0.422993	
protein	0.831957	0.720379	0.719518	0.603645	0.478960	0.880960	0.766942	
vit_a	-0.153963	-0.121748	-0.122280	-0.054292	-0.086352	-0.057142	-0.134031	-1
vit_c	0.007387	-0.115456	-0.112868	-0.088834	-0.141754	-0.015610	0.062994	
calcium	0.351207	0.166801	0.168817	0.304948	0.114094	0.162438	0.284882	

```
In [10]: #check missing value of the dataset
         data.isnull().sum()
Out[10]: restaurant
                            0
          item
                            0
          calories
                            0
          cal_fat
                            0
          total_fat
                            0
          sat_fat
                            0
          trans_fat
          cholesterol
                            0
          sodium
          total_carb
                            0
          fiber
                           12
          sugar
                            0
                            1
          protein
                          214
          vit_a
                          210
          vit_c
          calcium
                          210
          salad
                            0
          dtype: int64
```

EDA of the Data

```
In [11]: restaurants = data['restaurant'].unique()
nutritions = ['calories', 'sat_fat', 'trans_fat', 'sodium', 'protei
```

In [12]: sns.set(style="whitegrid") for nutrition in nutritions: fig, ax = plt.subplots(figsize=(10, 6)) sns.boxplot(x='restaurant', y=nutrition, data=data, ax=ax) ax.set_ylabel('Value', fontsize=14) ax.set_title(f"Boxplot of {nutrition} Values", fontsize=16) plt.show()



Boxplot of protein Values



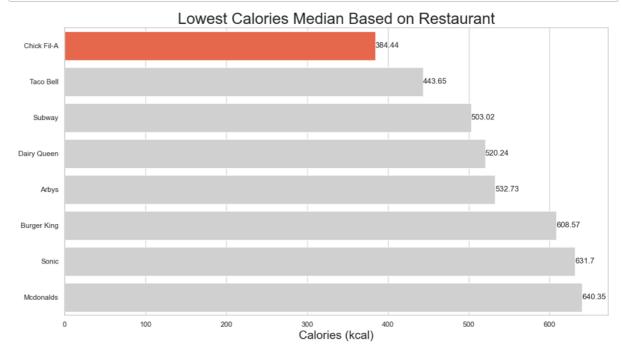
In [13]: nutritions_per_restaurant = data.groupby('restaurant').mean().round nutritions_per_restaurant

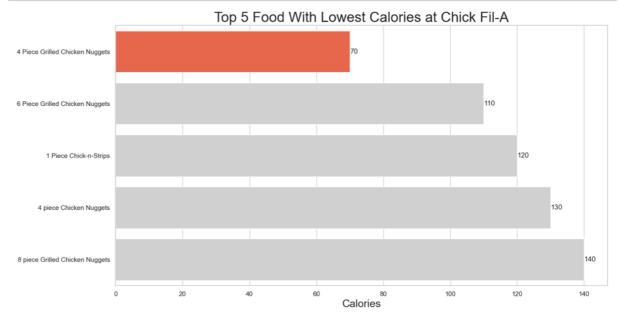
/var/folders/qn/zzvcdwg51dzdyg67zv6vp9lw0000gn/T/ipykernel_1054/35 68129121.py:1: FutureWarning: The default value of numeric_only in DataFrameGroupBy.mean is deprecated. In a future version, numeric_only will default to False. Either specify numeric_only or select only columns which should be valid for the function.

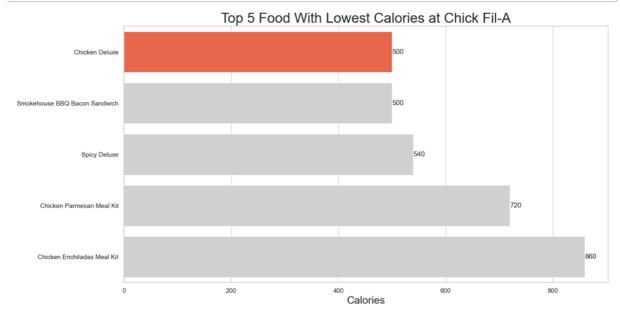
nutritions_per_restaurant = data.groupby('restaurant').mean().ro
und(2).sort_values(by='calories').reset_index()

Out[13]:

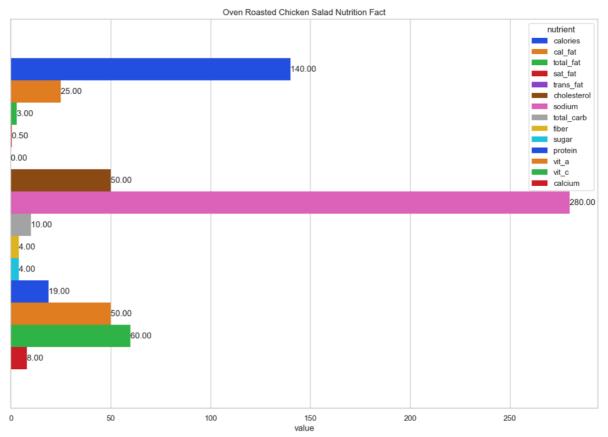
	restaurant	calories	cal_fat	total_fat	sat_fat	trans_fat	cholesterol	sodium	total_carb
0	Chick Fil-A	384.44	145.37	16.15	4.11	0.04	79.07	1151.48	28.63
1	Taco Bell	443.65	188.00	20.90	6.59	0.26	39.04	1013.91	46.63
2	Subway	503.02	165.10	18.48	6.20	0.22	61.30	1272.97	54.72
3	Dairy Queen	520.24	260.48	28.86	10.44	0.68	71.55	1181.79	38.69
4	Arbys	532.73	237.84	26.98	7.97	0.42	70.45	1515.27	44.87
5	Burger King	608.57	333.76	36.81	11.15	0.86	100.86	1223.57	39.31
6	Sonic	631.70	338.30	37.64	11.42	0.93	86.98	1350.75	47.21
7	Mcdonalds	640.35	285.61	31.81	8.29	0.46	109.74	1437.89	48.79

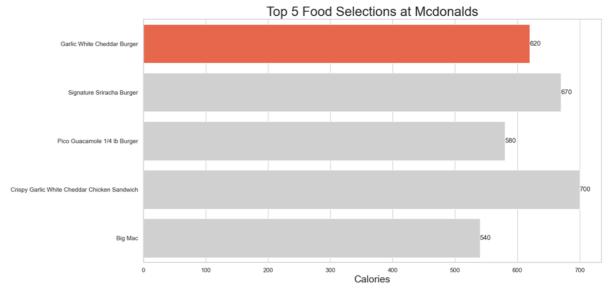






```
In [17]: #Protein to calories ratio
    data['protein_to_cal_ratio'] = data['protein'] / data['calories']
    data['sodium_to_cal_ratio'] = data['sodium'] / data['calories']
    top_10_cal_ratio = data.sort_values(by=['sodium_to_cal_ratio', 'protop_10_cal_ratio = top_10_cal_ratio[top_10_cal_ratio['protein_to_catop_10_cal_ratio.drop('salad', inplace=True, axis=1)
```







```
In [20]: | null_vals = dict(data.isnull().sum())
         null_vals
Out[20]: {'restaurant': 0,
          'item': 0,
          'calories': 0,
          'cal fat': 0,
          'total_fat': 0,
          'sat_fat': 0,
          'trans_fat': 0,
          'cholesterol': 0,
          'sodium': 0,
          'total_carb': 0,
          'fiber': 12,
          'sugar': 0,
          'protein': 1,
          'vit_a': 214,
          'vit_c': 210,
          'calcium': 210,
          'salad': 0,
          'protein_to_cal_ratio': 1,
          'sodium to cal ratio': 0}
In [21]: # % null values
         for key,val in null_vals.items():
             print(f"null values for {key} ======> {(int(val)/data.shape[0]
         null values for restaurant =====> 0.0
         null values for item =====> 0.0
         null values for calories =====> 0.0
         null values for cal fat =====> 0.0
         null values for total_fat ======> 0.0
         null values for sat_fat =====> 0.0
         null values for trans fat ======> 0.0
         null values for cholesterol =====> 0.0
         null values for sodium =====> 0.0
         null values for total_carb =====> 0.0
         null values for fiber =====> 2.3300970873786406
         null values for sugar =====> 0.0
         null values for protein ======> 0.1941747572815534
         null values for vit_a ======> 41.55339805825243
         null values for vit_c ======> 40.77669902912621
         null values for calcium =====> 40.77669902912621
         null values for salad =====> 0.0
         null values for protein to cal ratio ======> 0.1941747572815534
         null values for sodium_to_cal_ratio ======> 0.0
```

```
In [22]: # replace vitamin a ,c and calcium with mean value, for this collec
         null_cols = ['fiber','protein','vit_a','vit_c','calcium']
         null_cols_avg = {}
         for col in null_cols:
              null_cols_avg[col] = data[col].describe().mean()
         null cols avg
Out[22]: {'fiber': 67.14682965168379,
           'protein': 102.8843714070368,
           'vit_a': 70.6551841488183,
           'vit c': 99.97034180718309,
           'calcium': 87.92181644364442}
In [23]: data.fillna(value=null_cols_avg,inplace=True)
         data.isnull().sum()
Out[23]: restaurant
                                   0
                                   0
         item
                                   0
         calories
         cal_fat
                                   0
         total_fat
                                   0
         sat fat
                                   0
         trans_fat
                                   0
         cholesterol
                                   0
         sodium
                                   0
         total carb
         fiber
                                   0
                                   0
         sugar
         protein
                                   0
         vit a
         vit c
                                   0
         calcium
                                   0
                                   0
         salad
         protein_to_cal_ratio
                                   1
         sodium_to_cal_ratio
                                   0
         dtype: int64
```

```
In [24]: # Oh cleared it, now ready to go
# here we will consider only total fat, the reason is I have not go
# about trans_fat,sat_fat and cal_fat, I appologise for this, lets
data.drop(['salad','cal_fat','sat_fat','trans_fat'],axis=1,inplace=
```

1) Collecting labels unsuperwised learning

Steps followed:

- · Collecting libraries
- Dropping unrequired columns
- · Finding best cluster
- · Visualizing elbow method
- · Training model with best cluster
- · Getting labels

```
In [25]: df_seg = data.drop(['restaurant','item'],axis='columns')
    df_seg.sample(3)
```

Out [25]:

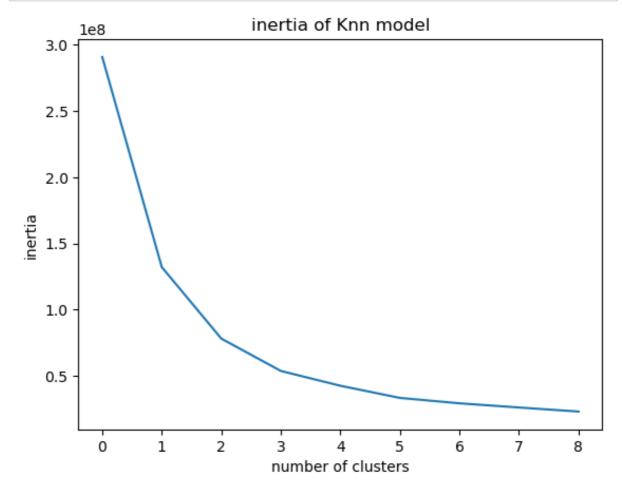
	calories	total_fat	cholesterol	sodium	total_carb	fiber	sugar	protein	vit_a	vit_c	
87	410	24	55	730	32	1.0	4	20.0	7.0	1.0	
458	420	28	65	1070	23	4.0	2	19.0	6.0	4.0	
366	390	7	10	800	56	8.0	8	23.0	15.0	20.0	

Finding best cluster size for segmentation

```
In []: inertias = []
for i in range(1,10):
    model = KMeans(n_clusters=i,init="k-means++",random_state=42)
    model.fit(df_seg)
    inertias.append(model.inertia_)
print(inertias)
```

Elbow method

```
In [13]: plt.plot(inertias)
   plt.title("inertia of Knn model")
   plt.xlabel("number of clusters")
   plt.ylabel("inertia")
   plt.show()
```



As per elbow method 3 types of clusters are best for our model, that means we can classify foods into 3 types.

```
In [14]: model = KMeans(n_clusters=3,init='k-means++',random_state=42)
model.fit(df_seg)
```

Out[14]: KMeans(n_clusters=3, random_state=42)

```
In [15]: cluster_centers = model.cluster_centers_
          cluster_centers
Out[15]: array([[1134.16666667,
                                       57.25
                                                      172.08333333, 3282.91666667
                     87.29166667,
                                        9.2561179 ,
                                                        15.
                                                                         67.
                      25.5804627,
                                       43.41048788,
                                                       47.73371176],
                  [ 362.79863481,
                                                                       806.55290102
                                       17.54266212,
                                                       47.11604096,
                      32.54266212.
                                        3.570467
                                                        5.25938567.
                                                                         19.07167235
                      43.55714278,
                                       52.93645632,
                                                       46.15857203],
                  [ 706.56565657,
                                       36.26262626,
                                                       97.87878788, 1651.31313131
                                       8.17408231,
                      60.03535354,
                                                        9.28787879,
                                                                        36.5802241
                                      53.50271904,
                      37.47492661,
                                                       57.44197356]])
In [16]: labels = model.labels_
          labels[:10]
Out[16]: array([1, 2, 2, 2, 2, 1, 1, 1, 1, 2], dtype=int32)
In [17]: |df['labels'] = labels
          df.sample(3)
Out [17]:
               restaurant
                            item calories total fat cholesterol sodium total carb fiber sugar
                         Jalapeno
                  Burger
           252
                          Chicken
                                     300
                                              18
                                                        40
                                                              950
                                                                         19
                                                                             1.0
                                                                                     1
                    King
                            Fries
                            Steak
           420
                 Taco Bell
                                     630
                                              31
                                                        65
                                                             1410
                                                                         64
                                                                             3.0
                         Quesarito
                           Crispy
                    Dairy
                                                        35
                                                                             2.0
           297
                          Chicken
                                     350
                                             21
                                                              820
                                                                         30
                                                                                     1
```

Done first part 😔

Queen

Wrap

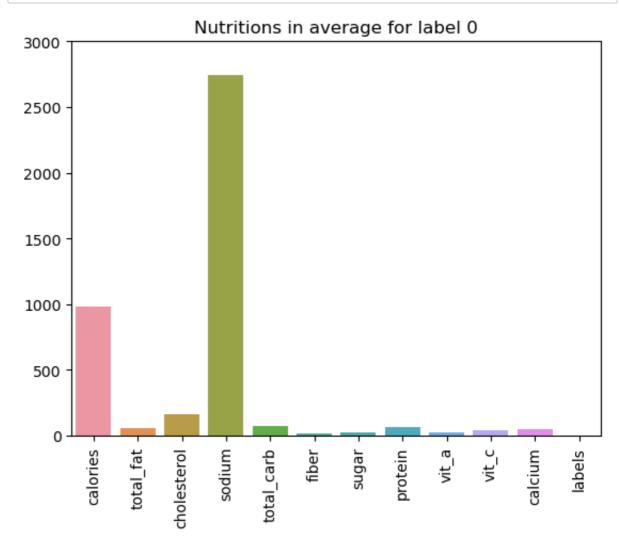
2) Segmenting data into healthy food and unhealthy food

label 2 198

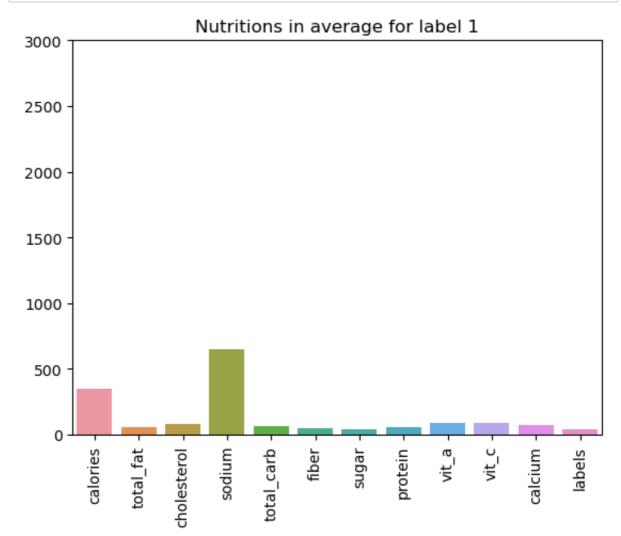
Collecting average of Nutrition

```
nutritions = list(label_0.describe().columns)
In [20]:
         label 0 nutri avg = label 0.describe().mean().values
         label_1_nutri_avg = label_1.describe().mean().values
         label_2_nutri_avg = label_2.describe().mean().values
         print("label_0_nutri_avg", label_0_nutri_avg)
         print("label_1_nutri_avg", label_1_nutri_avg)
         print("label_2_nutri_avg", label_2_nutri_avg)
         label_0_nutri_avg [ 983.68437654 54.17094372
                                                         159.72297763 2747.
         68371272
                    74.06228987
            16.85584648
                          22.03154889
                                        64.67569437
                                                      26.03244575
                                                                     41.5551
         4837
            45.10334094
                           3.
         label_1_nutri_avg [348.17926188 53.34113266 81.06354433 651.4759
         0738 66.8572915
           47.13631206 44.21520818 54.22214806 85.46994363 93.22141349
           75.50071478 37.375
                                   1
         label_2_nutri_avg [ 597.76546522
                                            60.88604693
                                                         179.10830333 1338.
         3392055
                   72.52380115
                          34.45431951
            37.79632294
                                        62,62686176
                                                      54.51430051
                                                                    106.1125
         0799
            94.82042994
                          26.25
                                     1
```

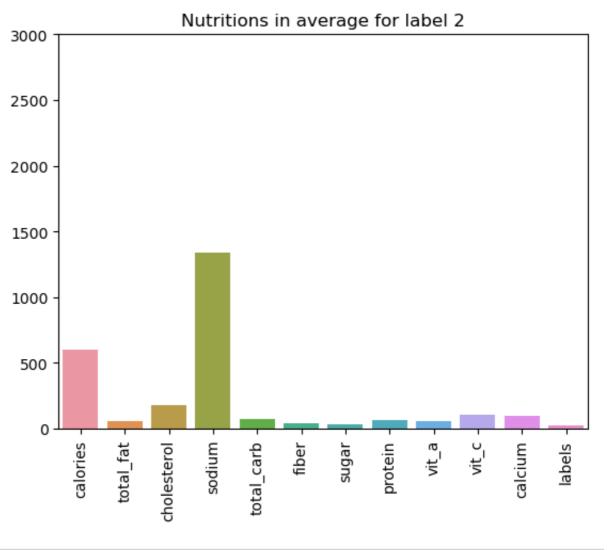
```
In [21]: # label 0
sn.barplot(x=nutritions,y=label_0_nutri_avg)
plt.title("Nutritions in average for label 0")
plt.xticks(rotation=90)
plt.ylim([0,3000])
plt.show()
```



```
In [22]: # label 1
sn.barplot(x=nutritions,y=label_1_nutri_avg)
plt.title("Nutritions in average for label 1")
plt.xticks(rotation=90)
plt.ylim([0,3000])
plt.show()
```



```
In [23]: # label 2
sn.barplot(x=nutritions,y=label_2_nutri_avg)
plt.title("Nutritions in average for label 2")
plt.xticks(rotation=90)
plt.ylim([0,3000])
plt.show()
```



```
In [24]: positive_ntr = ['protein','calcium','total_carb','vit_a','vit_c','f
    negative_ntr = ['sugar','calories','total_fat','sodium','cholestero
```

zipping average values of nutritions and labels (nutritions) in dictionary format

```
In [25]: def zipper(lis1,lis2):
    temp = {}
    for v1,v2 in zip(lis1,lis2):
        temp[v1] = v2
    return temp

label_0_dic = zipper(nutritions,label_0_nutri_avg)
label_1_dic = zipper(nutritions,label_1_nutri_avg)
label_2_dic = zipper(nutritions,label_2_nutri_avg)
print("label_0_zipped",label_0_dic)
print("\n\nlabel_1_zipped",label_1_dic)
print("\n\nlabel_2_zipped",label_2_dic)
```

label_0_zipped {'calories': 983.6843765410205, 'total_fat': 54.170 943716023075, 'cholesterol': 159.7229776299231, 'sodium': 2747.683 7127196836, 'total_carb': 74.06228986650855, 'fiber': 16.855846476 00119, 'sugar': 22.031548893984787, 'protein': 64.67569436810251, 'vit_a': 26.03244574783713, 'vit_c': 41.55514836677963, 'calcium': 45.10334093742827, 'labels': 3.0}

label_1_zipped {'calories': 348.1792618797805, 'total_fat': 53.341
132663545174, 'cholesterol': 81.06354432632749, 'sodium': 651.4759
07381187, 'total_carb': 66.8572915034758, 'fiber': 47.136312059280
49, 'sugar': 44.215208179041106, 'protein': 54.22214806008845, 'vi
t_a': 85.46994362676779, 'vit_c': 93.2214134895857, 'calcium': 75.
50071477749262, 'labels': 37.375}

label_2_zipped {'calories': 597.7654652211517, 'total_fat': 60.886
046928150904, 'cholesterol': 179.10830332930465, 'sodium': 1338.33
92054964756, 'total_carb': 72.52380115219286, 'fiber': 37.79632293
7000525, 'sugar': 34.45431950755102, 'protein': 62.626861761152654
, 'vit_a': 54.51430051314611, 'vit_c': 106.11250798555193, 'calcium': 94.82042994096822, 'labels': 26.25}

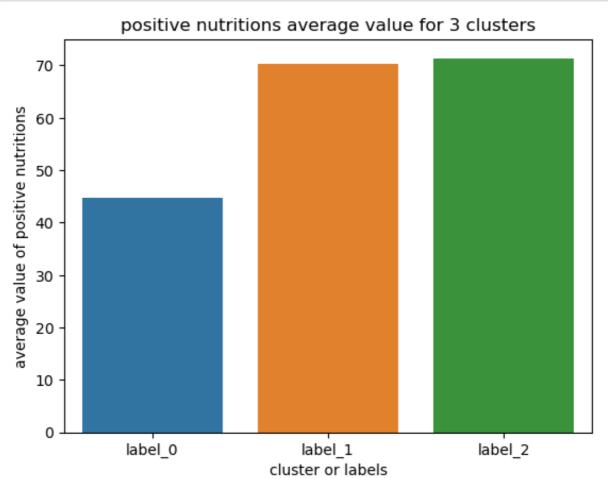
creating dictionary for each label (cluster) with positive nutrition and negative nutrition average values

```
In [26]: |pn_avg_label_0 = {}
         pn_avg_label_1 = \{\}
         pn_avg_label_2 = \{\}
         for i in range(3):
             lis1 = []
             lis2 = []
             lis3 = []
             for pos_val in positive_ntr:
                  lis1.append(label_0_dic[pos_val])
                  lis2.append(label 1 dic[pos val])
                  lis3.append(label_2_dic[pos_val])
             pn avg label 0['pos'] = sum(lis1)/len(lis1)
             pn_avg_label_1['pos'] = sum(lis2)/len(lis2)
             pn avg label 2['pos'] = sum(lis3)/len(lis3)
         for i in range(3):
             lis1 = []
             lis2 = []
             lis3 = []
             for pos_val in negative_ntr:
                  lis1.append(label_0_dic[pos_val])
                 lis2.append(label_1_dic[pos_val])
                  lis3.append(label_2_dic[pos_val])
             pn_avg_label_0['neg'] = sum(lis1)/len(lis1)
             pn avg label 1['neg'] = sum(lis2)/len(lis2)
             pn_avg_label_2['neg'] = sum(lis3)/len(lis3)
```

positive nutrition average (should be large)

picking high value cluster as winner

```
In [28]: sn.barplot(x=["label_0","label_1","label_2"],y=pos)
    plt.title("positive nutritions average value for 3 clusters")
    plt.xlabel("cluster or labels")
    plt.ylabel("average value of positive nutritions")
    plt.show()
```



negative nutrition average (should be low)

picking low valued cluster as winner

```
In [29]: sn.barplot(x=["label_0","label_1","label_2"],y=neg)
    plt.title("negative nutritions average value for 3 clusters")
    plt.xlabel("cluster or labels")
    plt.ylabel("average value of negative nutritions")
    plt.show()
```



Now the exciting part (which food should I consume)

by looking above grphs label 1 having more positive average and less negative average so it get first rank, then label 2 second rank and label 3 will be at last

Healthiest foods

prefer to eat this fast foods rather than others (9)

```
In [30]: label_1['item'].unique()
                      'Premium Southwest Salad w/ Grilled Chicken',
                      'Premium Southwest Salad w/ Crispy Chicken',
                      'Chargrilled Chicken Club Sandwich',
                      'Chargrilled Chicken Sandwich', 'Chick-n-Slider',
                     '1 Piece Chick-n-Strips', '2 Piece Chick-n-Strips',
'3 Piece Chick-n-Strips', '4 piece Chick-n-Strips',
'4 piece Chicken Nuggets', '6 piece Chicken Nuggets',
'8 piece Chicken Nuggets', 'Chicken Salad Sandwich',
                      '4 Piece Grilled Chicken Nuggets',
                      '6 Piece Grilled Chicken Nuggets'
                     '8 piece Grilled Chicken Nuggets'
                      '12 Piece Grilled Chicken Nuggets',
                      'Regular Grilled Chicken Sub Sandwich',
                     'Smokehouse BBQ Bacon Sandwich', 'Chargrilled Chicken Cool
            Wrap',
                      'Hatch Green Chile Cheeseburger', 'Jalapeno Burger', 'Jr. B
            urger'
                     'Jr. Chili Cheeseburger', 'Jr. Deluxe Burger', 'Jr. Deluxe Cheeseburger', 'Sonic Burger W/ Mustard',
                     'Sonic Burger W/ Ketchup', 'Sonic Burger W/ Mavonnaise',
```

Medium healthy food

```
In [31]: label 2['item'].unique()
                '4 Piece Super Crunch Chicken Strip Dinner',
                'Traditional Ultimate Chicken Sandwich', 'Ultimate Chicken
         Club',
                'All Beef Chicago Dog - 6"', 'Cheesy Bacon Pretzel Dog - 6
         In.',
                'Footlong Quarter Pound Coney', "Beef 'n Cheddar Classic",
                "Beef 'n Cheddar Mid", 'Bourbon BBQ Brisket Sandwich',
                'Bourbon BBQ Chicken Sandwich', 'Bourbon BBQ Steak Sandwich
                'Buttermilk Buffalo Chicken Sandwich',
                'Buttermilk Chicken Bacon & Swiss',
                'Buttermilk Chicken Cordon Bleu Sandwich',
                'Buttermilk Crispy Chicken Sandwich',
                'Classic French Dip & Swiss/Au Jus', 'Double Roast Beef',
                'Fire-Roasted Philly Steak', 'Grand Turkey Club', 'Greek Gy
         ro',
                'Half Pound Roast Beef Sandwich', 'Loaded Italian Sandwich'
                 'Pecan Chicken Salad Sandwich',
                 15 niaca Drima_Cut Chicken Tenderc!
                                                      Douban Canduich!
```

Less healthy foods

```
In [32]: label_0['item'].unique()
Out[32]: array(['10 piece Buttermilk Crispy Chicken Tenders',
                '12 piece Buttermilk Crispy Chicken Tenders',
                '20 piece Buttermilk Crispy Chicken Tenders',
                '40 piece Chicken McNuggets',
                "6 piece Sweet N' Spicy Honey BBQ Glazed Tenders",
                "10 piece Sweet N' Spicy Honey BBQ Glazed Tenders",
                '30 piece Chicken Nuggets', 'Chicken Enchiladas Meal Kit',
                'Buffalo Dunked Ultimate Chicken Sandwich',
                '5 Piece Super Crunch Chicken Strip Dinner',
                "Half Pound Beef 'n Cheddar Sandwich",
                'Half Pound French Dip & Swiss', 'Triple Decker Sandwich',
                '4 Piece Chicken Strip Basket w/ Country Gravy',
                '6 Piece Chicken Strip Basket w/ Country Gravy'
                'Footlong Big Hot Pastrami', 'Footlong Big Philly Cheeseste
         ak',
                'Footlong Carved Turkey & Bacon w/ Cheese',
                'Footlong Corned Beef Reuben', 'Footlong Italian B.M.T.',
                'Footlong Italian Hero', 'Footlong Spicy Italian',
                'Footlong Turkey Italiano Melt (with Provolone)',
                 'Turkey, Bacon & Guacamole Wrap'], dtype=object)
 In [ ]:
```