

Study of Student Satisfaction with University Canteen Services

U Mahima(20112035), Vidhi Saha(20112036), Yash Lucas(20112037)

Data Science Department, Christ (Deemed to be University), Lavasa

Sampling Techniques

Prof. Shine Raju Kappil

Abstract

Topic Details and Key Objectives

Customers want high quality food, affordable pricing and good service. We intend to study and analyze the student satisfaction with the pricing, quality, ambience, variety and service of the four canteens of Christ (Deemed to be University), Lavasa, i.e, Chopsticks, Cafe by valley, Cafe Concerto, MBA canteen.

Population under Study and method of sampling

The population under study are the students of the university and we will be using simple random sampling to select our sample.

Sample Size

Our population size (total number of students of Christ university) is 1250. We are considering our confidence level to be 92%, margin of error to be 8% and precision to be +/-8% and upon calculation considering the above mentioned factors, our sample size is approximately 110 students.

Analytical Methods to be used

For statistical analysis, we will be using the Kruskal Wallis H Test to assess if there are statistically significant variations between two or more groups of an independent variable on an ordinal dependent variable. We will be developing a regression model in order to find relation between the dependent variable, pricing and independent variables, quality and service. To maximize insight into the dataset, its underlying structure and to check correlation between the variables, visualizations using matplotlib, seaborn and pandas will be performed. (*Kruskal-Wallis H Test in SPSS Statistics | Procedure, Output and Interpretation of the Output Using a Relevant Example.*, n.d.)

Method of Data Collection

Data will be collected through Google forms.

Expected Outcome

We are expecting that greater level of satisfaction with quality, ambience, variety and service will lead to greater level of satisfaction with pricing. We assume that overall if the students are provided with good food, good facilities most of the students will be satisfied.

Introduction

The university canteen is a critical component of the seamless progression of teaching and scientific research. It is about students' urgent needs as well as the harmony and stability of university. Students want high-quality meals at a cheap price, as well as prompt service. We want to research and assess student satisfaction with the four canteens of Christ (Deemed to be University), Lavasa, namely Chopsticks, Cafe by Valley, Cafe Concerto, and MBA canteen, in terms of cost, quality, ambience, variety, and service. Canteens should not only provide food, but they should also guarantee that students' diets are nutritious and safe, as well as encourage student health. As a result, the quality of university canteens and student satisfaction with the cafeteria are strongly tied to the university's stability. Investigating and evaluating university students' content with the cafeteria may help canteen staffs better know their customers' perspectives and wants, as well as enhance management and stimulate logistical self-construction and make the necessary modifications to the canteen.

Review of literature

Cardozo was the first one to mix consumer happiness with marketing, and his concept sparked a lot of debate in the academic community. Customer satisfaction, according to Howard (1969), is a type of inner sensation that customers get when they consider the worth of purchasing a certain product. The advantages of purchasing a product are exactly proportional to the cost. Almanza et al. (1994) concluded that the quality of meals, the location of canteens, the sanitation of meals, and the pricing of meals were the most essential aspects determining students' satisfaction with university canteens. Meyer et al. (1998) conducted a survey on a canteen in a middle school in the United States, and found that the aesthetics of the menu design, the presentation of the food, the delicious taste, the quality and features of the canteen staff, the cost of the food, and the great dining environment are the main factors affecting canteen satisfaction.

Methods and methodology

Population: The population under study are the students of the university. The population size is 1250.

Sampling Technique: Simple random sampling was used to select the sample. Samples were chosen randomly from the population, each member of the population has an equal chance of being selected.

Sample size determination: To determine the sample size “Cochran’s formula” was used.

The formula developed by William G. Cochran is:

$$n_0 = z^2 (pq) / e^2$$

where,

n_0 = sample size

z = standard error associated with the chosen level of confidence (here, 1.75)

p = variability/standard deviation

$q = 1 - p$

e = acceptable sample error/ margin of error

Here we calculated the sample for proportions and found it to be 120 students.

Cochran’s formula for finite population correction for proportions is:

$$n = n_0 / 1 + [(n_0 - 1) / N]$$

where,

n = reduced sample size

n_0 = sample size

N = population size

Here we calculated the reduced sample according to our population and found it to be 110 students.

Working:

$$\begin{aligned}n_0 &= z^2(pq)/e^2 \\&= \frac{(1.75)^2 (0.5 \times 0.5)}{(0.08)^2} \\&= \frac{3.0625 \times 0.25}{0.0064} \\&= \frac{0.765}{0.0064} \\&\Rightarrow 120.\end{aligned}$$

For 1250 population.

$$\begin{aligned}n &= \frac{n_0}{1 + \frac{(n_0 - 1)}{N}} \\&= \frac{120}{1 + \frac{(120 - 1)}{1250}} \\&= \frac{120}{\frac{1250 + 119}{1250}} \\&= \frac{120}{1.0952} \\&\Rightarrow 110\end{aligned}$$

Statistical tools used:

- SPSS (IBM): To perform Kruskal-Wallis H Test to determine if two or more groups of an independent variable on an ordinal dependent variable have statistically significant differences.
- Sample Size Determination: Using Cochran's formula.
- Logistic Regression: Based on earlier observations of the recorded data set, predict a binary conclusion, i.e. yes or no in terms of customer satisfaction.

Hypothesis (used in Kruskal-Wallis H Test):

n_0 (null hypothesis): There is no statistically significant difference in the medians of the independent and dependent groups.

N_1 (alternate hypothesis): There is statistically significant difference in the medians of the independent and dependent groups.

Relationship between dependent and independent variables: Upon Kruskal-Wallis H Test we found that independent and dependent variables have no statistically significant difference.

Reason to choose dependent and independent variables: We chose price as dependent variable and hygiene, ambience, variety and service as independent variables as these are the main factors that could determine the customer satisfaction with food services. We are trying to establish a positive relationship between student satisfaction with price with satisfaction with the independent variables.

Results and Analysis

EDA(Exploratory Data Analysis)

Step 1: Importing the dataset

```
1 survey=pd.read_csv("final_response.csv")
```

```
1 survey
```

| Region | How much would you rate the hygiene of canteens? [Chopstics] | How much would you rate the hygiene of canteens? [Cafe Concerto] | How much would you rate the hygiene of canteens? [MBA Block] | How much would you rate the hygiene of canteens? [Cafe by valley] | ... | Do you think the prices are fair for the types of food sold? [Chopstics] | Do you think the prices are fair for the types of food sold? [Cafe Concerto] | Do you think the prices are fair for the types of food sold? [MBA Block] | Do you think the prices are fair for the types of food sold? [Cafe by valley] | Do you have the ability to take a 2nd serving of your choose meal? | Is the food served always hot enough? | Do you get the type of food as per your region? | Do you get place to sit in canteen? | How much average do you spend on food every day? | An sati wit o' ser |
|---------------|--|--|--|---|-----|--|--|--|---|--|---------------------------------------|---|-------------------------------------|--|--------------------|
| North India | 1 (worst) | 3 (ok) | 3 (ok) | 4 (good) | ... | 4 little expensive | 4 little expensive | 3 up to mark | 5 very expensive | no | yes | yes | yes | 300 | |
| South India | 3 (ok) | 3 (ok) | 3 (ok) | 4 (good) | ... | 3 up to mark | 3 up to mark | 4 little expensive | 5 very expensive | yes | yes | yes | yes | 150 | |
| South India | 3 (ok) | 4 (good) | 4 (good) | 4 (good) | ... | 4 little expensive | 4 little expensive | 3 up to mark | 4 little expensive | yes | yes | yes | yes | 90 | |
| Central India | 3 (ok) | 4 (good) | 5 (excellent) | 4 (good) | ... | 3 up to mark | 3 up to mark | 2 cheap | 3 up to mark | no | yes | no | yes | 150 | |
| North India | 3 (ok) | 4 (good) | 4 (good) | 4 (good) | ... | 3 up to mark | 5 very expensive | 3 up to mark | 5 very expensive | yes | yes | no | no | 200 | |

Step2 : Checking the rows and columns

```
1 print(survey.shape)
```

```
(163, 30)
```

This shows that the dataset has 163 rows and 30 columns.

Step3: Checking the datatype of all the columns

```
1 survey.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 163 entries, 0 to 162
Data columns (total 30 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Timestamp                            163 non-null    object
1   Department                           163 non-null    object
2   Year                                 163 non-null    object
3   Region                               163 non-null    object
4   rate_of_hygein_chopstics             163 non-null    object
5   rate_of_hygein_cafe_concerto          163 non-null    object
6   rate_of_hygein_mba                    163 non-null    object
7   rate_of_hygein_cafe_by_valley         163 non-null    object
8   ambience_chopstics                   163 non-null    object
9   ambience_Cafe_Concerto                163 non-null    object
10  ambience_MBA                          163 non-null    object
11  ambience_Cafe_by_valley               163 non-null    object
12  variety_chopstics                      163 non-null    object
13  variety_Cafe_Concerto                  163 non-null    object
14  variety_MBA                            163 non-null    object
15  variety_Cafe_by_valley                 163 non-null    object
16  service_chopstics                     163 non-null    object
17  service_Cafe_Concerto                  163 non-null    object
18  service_MBA                           163 non-null    object
19  service_Cafe_by_valley                 163 non-null    object
```

Step 4: Summary Statistics of price column

```
1 survey.describe()
```

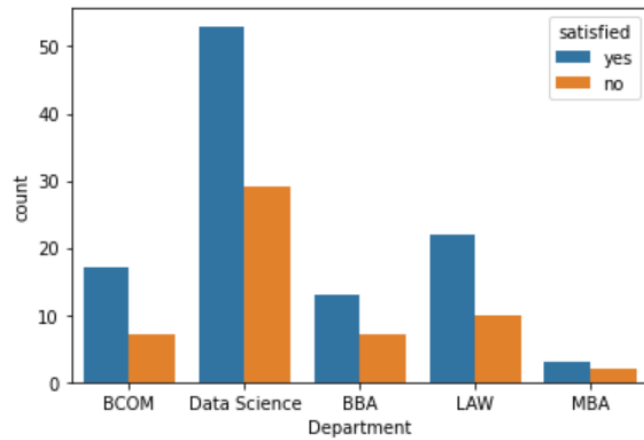
| spend_on_food | |
|---------------|-------------|
| count | 163.000000 |
| mean | 314.319018 |
| std | 192.401737 |
| min | 50.000000 |
| 25% | 200.000000 |
| 50% | 300.000000 |
| 75% | 400.000000 |
| max | 1500.000000 |

Step 5: Data Visualization

For data visualization , imported the following libraries:

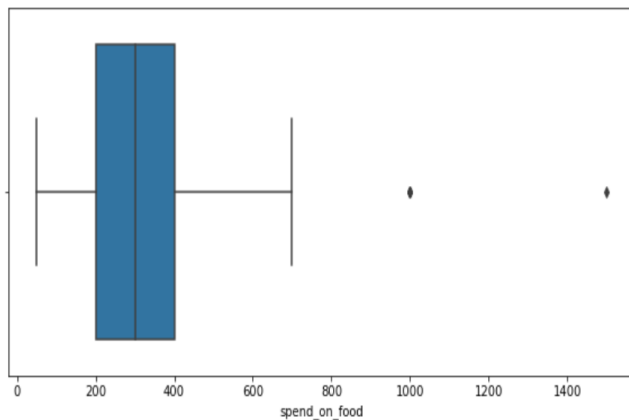
```
1 import matplotlib.pyplot as plt
2 import seaborn as sns
```

Graph 1: Relationship between different departments and their satisfaction with the overall food service of the university.



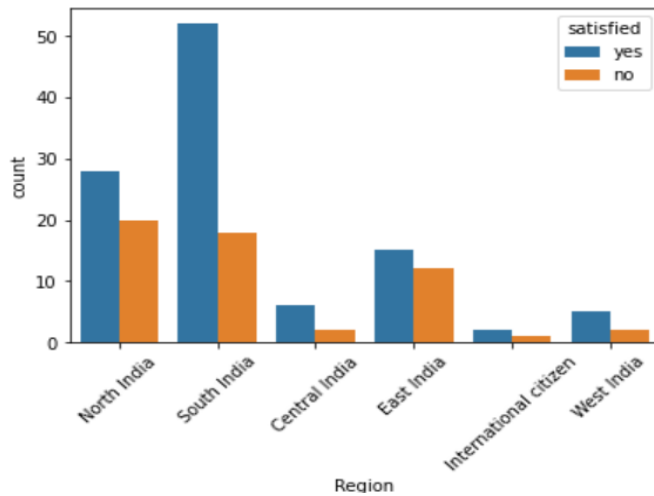
Result : The above graph shows that the department of Data Science is highly satisfied with the overall food service of the university and the department of MBA is least satisfied .

Graph 2: Distribution of average daily expenditure on food.



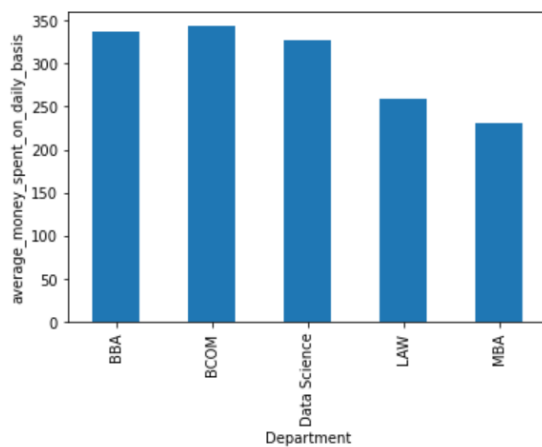
Result : The above boxplot shows that daily Rs. 200-400 is being spent by the students on food.

Graph 3: Relationship between students of different regions and their satisfaction with the overall food service of the university.



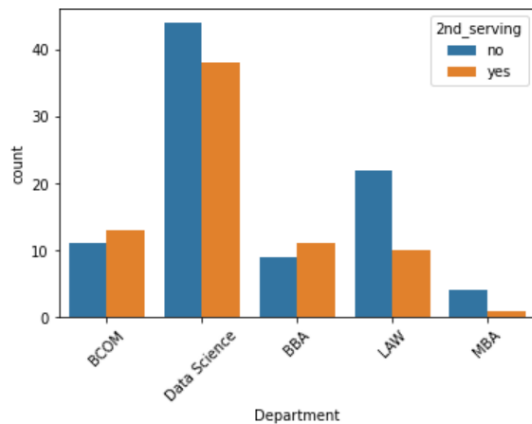
Result : The above bar graph shows that students of South India and students of North India are highly and least satisfied respectively.

Graph 4: Distribution of amount spent on food by students of different departments.



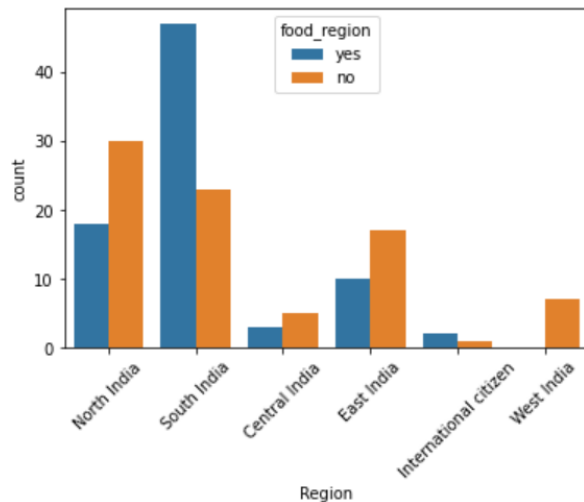
Result : The above graph shows that students of BCOM and BBA spend the most on food on a daily basis.

Graph 5: Relationship between students of different departments and their ability to take a 2nd serving of their choice meal.



Result : The above graph shows that the department of Data Science has the maximum number of people taking a 2nd serving of their choice meal.

Graph 6: Relationship between students of different regions and their satisfaction with the type of food served in the university.



Result : The above graph shows that students of South India are highly satisfied with the type of food served.

Statistical Method

Kruskal-Wallis H Test

The Kruskal-Wallis H test (also known as the "one-way ANOVA on ranks") is a rank-based nonparametric test that may be used to see if two or more groups of an independent variable on a continuous or ordinal dependent variable have statistically significant differences. It's a nonparametric alternative to the one-way ANOVA and an extension of the Mann-Whitney U test that allows you to compare more than two groups.

We have performed the Kruskal-Wallis H test taking the rating of price satisfaction as a dependent variable (grouping variable) and satisfaction rating of hygiene, ambience, variety and service as independent variables.

We used SPSS (Statistical Package for Social Sciences) to perform the test and the following results were obtained:

Cafe by valley

| Ranks | | | |
|----------|--------------------|-----|-----------|
| | Price | N | Mean Rank |
| Service | 5 very expensive | 44 | 92.73 |
| | 4 little expensive | 70 | 82.79 |
| | 3 up to mark | 33 | 69.76 |
| | 2 cheap | 7 | 76.43 |
| | 1 not at all | 9 | 72.67 |
| | Total | 163 | |
| Variety | 5 very expensive | 44 | 86.22 |
| | 4 little expensive | 70 | 86.04 |
| | 3 up to mark | 33 | 73.30 |
| | 2 cheap | 7 | 67.50 |
| | 1 not at all | 9 | 73.17 |
| | Total | 163 | |
| Ambience | 5 very expensive | 44 | 83.41 |
| | 4 little expensive | 70 | 91.41 |
| | 3 up to mark | 33 | 64.68 |
| | 2 cheap | 7 | 65.93 |
| | 1 not at all | 9 | 77.94 |
| | Total | 163 | |
| Hygeine | 5 very expensive | 44 | 88.51 |
| | 4 little expensive | 70 | 86.68 |
| | 3 up to mark | 33 | 65.85 |
| | 2 cheap | 7 | 77.79 |
| | 1 not at all | 9 | 76.28 |
| | Total | 163 | |

| Test Statistics ^{a,b} | | | | |
|--------------------------------|---------|---------|----------|---------|
| | Service | Variety | Ambience | Hygeine |
| Kruskal-Wallis H | 5.503 | 3.228 | 9.224 | 6.204 |
| df | 4 | 4 | 4 | 4 |
| Asymp. Sig. | .239 | .520 | .056 | .184 |

a. Kruskal Wallis Test

b. Grouping Variable: Price

In cafe by valley it is observed that Asymptotic significance for all independent variables is greater than 0.05 so we fail to reject the null hypothesis and can conclude that there is no statistically significant difference between the variables.

Chopsticks

| Ranks | | | |
|---------------|--------------------|-----|-----------|
| | chopstick_pri | N | Mean Rank |
| Chopstick_hyg | 1 not at all | 20 | 43.35 |
| | 2 cheap | 16 | 64.63 |
| | 3 up to mark | 55 | 93.05 |
| | 4 little expensive | 56 | 90.05 |
| | 5 very expensive | 16 | 81.50 |
| | Total | 163 | |
| chopstick_amb | 1 not at all | 20 | 57.45 |
| | 2 cheap | 16 | 81.94 |
| | 3 up to mark | 55 | 89.89 |
| | 4 little expensive | 56 | 85.17 |
| | 5 very expensive | 16 | 74.53 |
| | Total | 163 | |
| chopstick_var | 1 not at all | 20 | 52.90 |
| | 2 cheap | 16 | 79.84 |
| | 3 up to mark | 55 | 97.45 |
| | 4 little expensive | 56 | 82.98 |
| | 5 very expensive | 16 | 64.00 |
| | Total | 163 | |
| chopstick_ser | 1 not at all | 20 | 47.70 |
| | 2 cheap | 16 | 80.00 |
| | 3 up to mark | 55 | 91.75 |
| | 4 little expensive | 56 | 86.57 |
| | 5 very expensive | 16 | 77.38 |
| | Total | 163 | |

| Test Statistics ^{a,b} | | | | |
|--------------------------------|---------------|---------------|---------------|---------------|
| | Chopstick_hyg | chopstick_amb | chopstick_var | chopstick_ser |
| Kruskal-Wallis H | 22.253 | 8.688 | 17.040 | 14.914 |
| df | 4 | 4 | 4 | 4 |
| Asymp. Sig. | <.001 | .069 | .002 | .005 |

a. Kruskal Wallis Test

b. Grouping Variable: chopstick_pri

In Chopsticks it is observed that Asymptotic significance for all independent variables except ambience is lesser than 0.05 so we reject the null hypothesis As a result, we reject the null hypothesis and conclude that the variables are statistically significant and only ambience is not statistically significant with price.

MBA Canteen

| Ranks | | | |
|---------|--------------------|-----|-----------|
| | MBA_pri | N | Mean Rank |
| MBA_hyg | 1 not at all | 8 | 86.31 |
| | 2 cheap | 16 | 93.75 |
| | 3 up to mark | 81 | 80.07 |
| | 4 little expensive | 46 | 80.18 |
| | 5 very expensive | 12 | 83.42 |
| | Total | 163 | |
| MBA_amb | 1 not at all | 8 | 104.44 |
| | 2 cheap | 16 | 72.81 |
| | 3 up to mark | 81 | 79.05 |
| | 4 little expensive | 46 | 86.12 |
| | 5 very expensive | 12 | 83.42 |
| | Total | 163 | |
| MBA_var | 1 not at all | 8 | 81.81 |
| | 2 cheap | 16 | 101.63 |
| | 3 up to mark | 81 | 80.86 |
| | 4 little expensive | 46 | 82.47 |
| | 5 very expensive | 12 | 61.88 |
| | Total | 163 | |
| MBA_ser | 1 not at all | 8 | 76.75 |
| | 2 cheap | 16 | 91.69 |
| | 3 up to mark | 81 | 74.89 |
| | 4 little expensive | 46 | 89.26 |
| | 5 very expensive | 12 | 92.75 |
| | Total | 163 | |

| Test Statistics ^{a,b} | | | | |
|--------------------------------|---------|---------|---------|---------|
| | MBA_hyg | MBA_amb | MBA_var | MBA_ser |
| Kruskal-Wallis H | 1.420 | 3.456 | 5.434 | 4.732 |
| df | 4 | 4 | 4 | 4 |
| Asymp. Sig. | .841 | .485 | .246 | .316 |

a. Kruskal Wallis Test

b. Grouping Variable: MBA_pri

In the MBA canteen it is observed that Asymptotic significance for all independent variables is greater than 0.05 so we fail to reject the null hypothesis and can conclude that there is no statistically significant difference between the variables.

Concerto

| Ranks | | | |
|--------------|--------------------|-----|-----------|
| | concerto_pri | N | Mean Rank |
| concerto_hyg | 1 not at all | 12 | 66.25 |
| | 2 cheap | 5 | 32.10 |
| | 3 up to mark | 39 | 76.22 |
| | 4 little expensive | 74 | 85.06 |
| | 5 very expensive | 33 | 95.26 |
| | Total | 163 | |
| concerto_amb | 1 not at all | 12 | 63.67 |
| | 2 cheap | 5 | 65.70 |
| | 3 up to mark | 39 | 65.86 |
| | 4 little expensive | 74 | 89.12 |
| | 5 very expensive | 33 | 94.24 |
| | Total | 163 | |
| concerto_var | 1 not at all | 12 | 58.54 |
| | 2 cheap | 5 | 48.20 |
| | 3 up to mark | 39 | 92.88 |
| | 4 little expensive | 74 | 83.29 |
| | 5 very expensive | 33 | 79.89 |
| | Total | 163 | |
| concerto_ser | 1 not at all | 12 | 61.04 |
| | 2 cheap | 5 | 60.10 |
| | 3 up to mark | 39 | 77.18 |
| | 4 little expensive | 74 | 90.33 |
| | 5 very expensive | 33 | 79.95 |
| | Total | 163 | |

| Test Statistics ^{a,b} | | | | |
|--------------------------------|--------------|--------------|--------------|--------------|
| | concerto_hyg | concerto_amb | concerto_var | concerto_ser |
| Kruskal-Wallis H | 11.982 | 12.628 | 8.632 | 7.189 |
| df | 4 | 4 | 4 | 4 |
| Asymp. Sig. | .017 | .013 | .071 | .126 |

a. Kruskal Wallis Test

b. Grouping Variable: concerto_pri

In cafe concerto it is observed that Asymptotic significance for the independent variables variety and service is greater than 0.05 so we fail to reject the null hypothesis and can conclude that there is no statistically significant difference between the variables on the other hand, hygiene and ambience have Asymptotic significance less than 0.05 so we reject the null hypothesis and conclude that there is statistically significant difference between the variables.

Machine learning- Model (Logistic regression)

Logistic regression

Logistic regression can be termed as a statistical analytic method for predicting a binary outcome, i.e., yes or no of customer satisfaction, based on prior observations of the recorded data set.

Importing Libraries

```
from sklearn.linear_model import LogisticRegression
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score
from sklearn.metrics import confusion_matrix
```

Label Encoder- Helps in converting labels into numeric data which helps machine to understand it in easy form.

Using label encoder to convert yes or no to 1 or 0.

1 for yes, 0 for no.

```
x1=survey1[["2nd_serving","hot_food","food_region","sitting_place"]]
x1
```

| | 2nd_serving | hot_food | food_region | sitting_place |
|-----|-------------|----------|-------------|---------------|
| 0 | 0 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 1 | 1 | 1 |
| 3 | 0 | 1 | 0 | 1 |
| 4 | 1 | 1 | 0 | 0 |
| ... | ... | ... | ... | ... |
| 158 | 0 | 0 | 0 | 0 |
| 159 | 1 | 1 | 0 | 0 |
| 160 | 0 | 1 | 0 | 1 |
| 161 | 1 | 1 | 0 | 0 |
| 162 | 1 | 0 | 1 | 0 |

163 rows × 4 columns

Putting the data for training and testing .

Train size = 70%

Test size= 30%

```
x1_train,x1_test,y_train,y_test=train_test_split(x1,y,test_size=0.3)
```

```
Shape of x_train:: (114, 4)
```

```
Shape of x_test:: (49, 4)
```

```
Shape of y_train:: (114, 1)
```

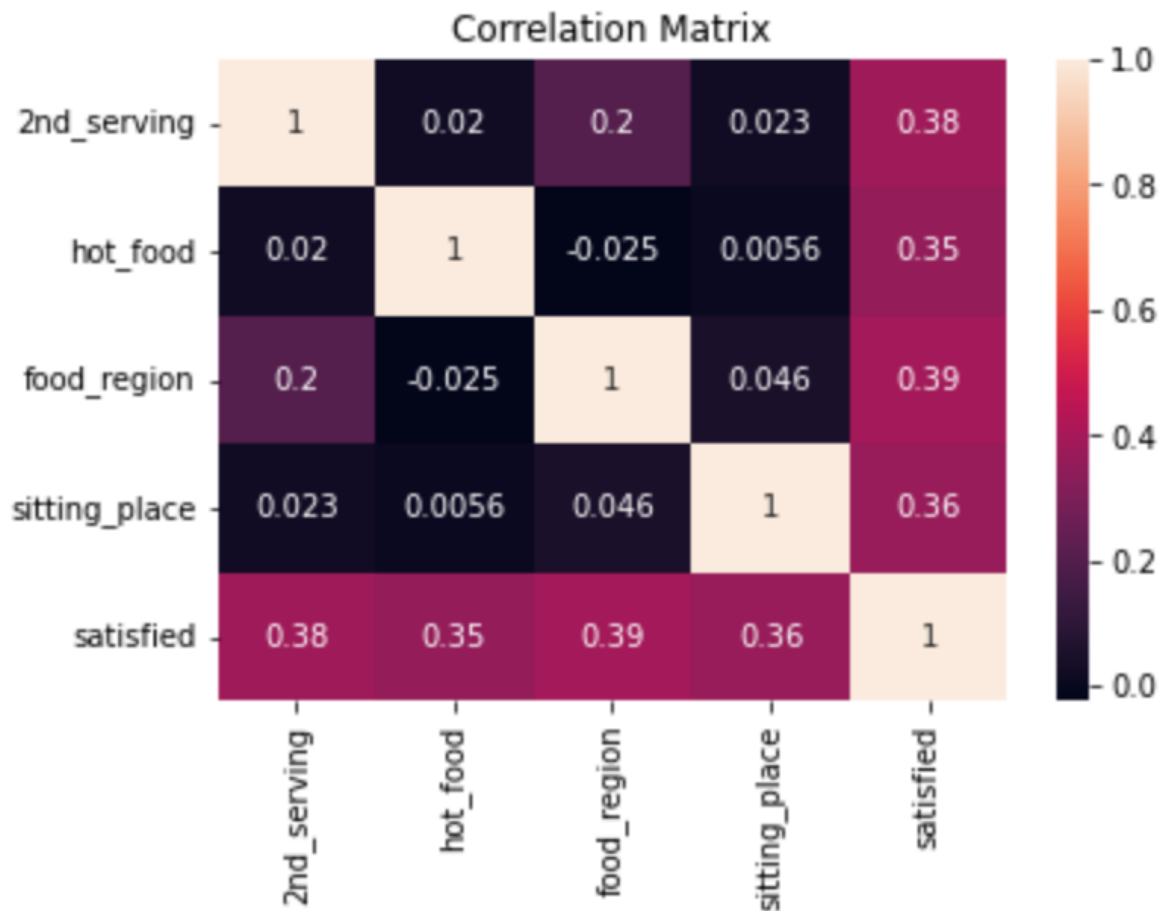
```
Shape of y_test:: (49, 1)
```

Accuracy of the model is 0.85

```
In [22]: print("Accuracy Score of the model:",accuracy_score(y_pred,y_test))  
Accuracy Score of the model: 0.8571428571428571
```

Correlation Matrix- A correlation matrix shows the relationship between two variables. It works well with variables that have a linear relationship with one another.

Correlation Matrix of dependent and independent variables.



Correlation between the dependent and the independent variables.

Independent variables- 2nd serving, hot_food, food_region, sitting_place

Dependent variables- Satisfied

Conclusion: The conclusion which we got from our project is that with the help of independent variables we can predict the customer satisfaction of the canteens in our college. Upon Kruskal-Wallis H Test we found that independent and dependent variables have no statistically significant difference. The graphs above give us an exploratory data analysis based on the survey.

We have used logistic regression as our model which gave us accuracy around 85% which predicts the satisfaction of the students.

One of the major points that came from EDA is about South Indians who are more satisfied with the canteen as compared to North Indians.

Overall if the students are provided with good food with good facilities most of the students will be satisfied.

References:

Harmadi, A. C. (2021, September 25). *10 Things to do when conducting your Exploratory Data Analysis (EDA)*. Medium. Retrieved May 30, 2022, from

<https://medium.com/data-folks-indonesia/10-things-to-do-when-conducting-your-exploratory-data-analysis-eda-7e3b2dfbf812>

Kruskal-Wallis H Test in SPSS Statistics | Procedure, output and interpretation of the output using a relevant example. (n.d.). Laerd Statistics. Retrieved May 30, 2022, from

<https://statistics.laerd.com/spss-tutorials/kruskal-wallis-h-test-using-spss-statistics.php>

sklearn.linear_model.LogisticRegression — scikit-learn 1.1.1 documentation. (n.d.). Scikit-learn.

Retrieved May 30, 2022, from
https://scikit-learn.org/stable/modules/generated/sklearn.linear_model.LogisticRegression.html

Smith, I. (2020, March 23). *Exploratory Data Analysis (EDA) Visualization Using Pandas | by Pararawendy Indarjo*. Towards Data Science. Retrieved May 30, 2022, from

<https://towardsdatascience.com/exploratory-data-analysis-eda-visualization-using-pandas-ca5a04271607>

Appendix-

Questionnaire:

Canteen Survey

We are doing a short survey about customers satisfaction within different canteen in the campuses.

The questions are based on: Pricing, service, ambience, variety ,hygiene and quality of food available in different canteens.

Name *

Short answer text

Department *

- ☐ Data Science
- ☐ BBA
- ☐ B COM
- ☐ LAW
- ☐ MBA

Year *

- ☐ 1st year
- ☐ 2nd year
- ☐ 3rd year

E-mail *

Short answer text

Region *

- ☐ North India
- ☐ South India
- ☐ East India
- ☐ West India
- ☐ Central India
- ☐ International citizen

How much would you rate the hygiene of canteens? *

| | 1 | 2 | 3 | 4 | 5 |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Chopstics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe Concerto | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MBA Block | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe by valley | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |



How much would you rate the ambience of canteens? *

| | 1 (worst) | 2 (bad) | 3 (ok) | 4 (good) | 5 (excellent) |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Chopstics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe Concerto | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MBA Block | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe by valley | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Is there sufficient variety of meals to choose from? *

| | 1 (worst) | 2 (bad) | 3 (ok) | 4 (good) | 5 (excellent) |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Chopstics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe Concerto | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MBA Block | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe by valley | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

How much would rate the overall service facilities? *

| | 1 (worst) | 2 (bad) | 3 (ok) | 4 (good) | 5 (excellent) |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Chopstics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe Concerto | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MBA Block | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe by valley | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |



Do you think the prices are fair for the types of food sold? *

| | 1 not at all | 2 cheap | 3 up to mark | 4 little expensive | 5 very expensive |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Chopstics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe Concerto | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MBA Block | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Cafe by valley | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Do you have the ability to take a 2nd serving of your choose meal? *

- ☐ yes
- ☐ no



Is the food served always hot enough? *

- ☐ yes
- ☐ no

Do you get the type of food as per your region? *

- ☐ yes
- ☐ no