

KGiSL Institute of Technology

NAAN MUDHALVAN

PROJECT TITLE:

Public Health Awareness

TEAM MEMBERS:

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PROJECT DESCRIPTION:

PHASE 4: Development On The Public Health Awareness DataSet

<u>OBJECTIVE</u>:

STEPS:

IN GOOGLE COLAB NOTEBOOK:

- Mount the google drive
- Load the DataSet to the Google ColabNotebook

DESCRIPTIVE ANALYSIS:

- Frequency
- Proposition
- Summary Statistics & Reports
- Corelation
- Graph Representation

DESCRIPTIVE ANALYSIS:

FREQUENCY:

```
# Frequency of treatement :
response_counts = id['treatment'].value_counts()
print(response_counts)
```

PROPOSITION:

code:

```
#Proposition :
response_proportions = id['treatment'].value_counts(normalize=True)
print(response_proportions)
```

output:

SUMMARY STATISTICS:

```
#SUMMARY STATISTICS FOR TREATMENT :
```

```
# summary statistics for "Yes" responses

yes_stats = id[id['treatment'] == 'Yes'].describe()
print(yes_stats)
```

```
#SUMMARY STATISTICS FOR TREATMENT:

# summary statistics for "Yes" responses

yes_stats = id[id['treatment'] == 'Yes'].describe()
print(yes_stats)

Age
count 6.370000e+02
mean 1.569859e+08
std 3.962144e+09
min -1.726000e+03
25% 2.700000e+01
50% 3.20000e+01
75% 3.700000e+01
max 1.000000e+11
```

code:

```
#summary statistics for "No" responses

no_stats = id[id['treatment'] == 'No'].describe()
print(no_stats)
```

output:

```
#summary statistics for "No" responses

no_stats = id[id['treatment'] == 'No'].describe()

print(no_stats)

Age

count 622.000000

mean 31.361736

std 7.481982

min -29.000000

25% 27.000000

50% 31.000000

75% 35.000000

max 65.000000
```

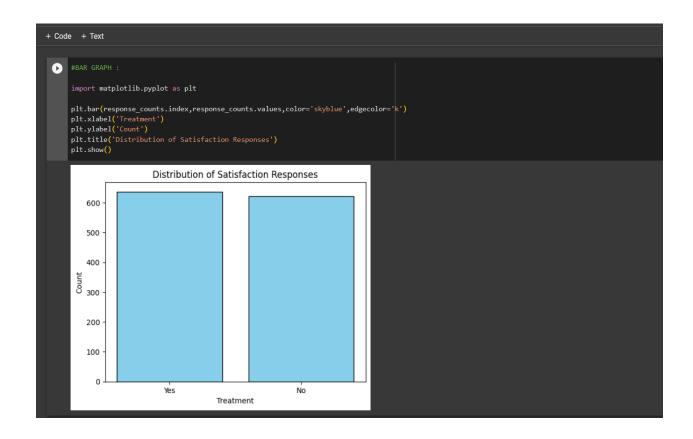
GRAPH REPRESENTATION:

code:

```
#BAR GRAPH :
import matplotlib.pyplot as plt

plt.bar(response_counts.index,response_counts.values,color='skyblue',ed
gecolor='k')
plt.xlabel('Treatment')
plt.ylabel('Count')
plt.title('Distribution of Satisfaction Responses')
plt.show()
```

output:



```
data=id.Age

plt.hist(data, bins=5, edgecolor='k',color='pink')

plt.xlabel('Values')

plt.ylabel('Frequency')

plt.title('Histogram for Age Distribution')

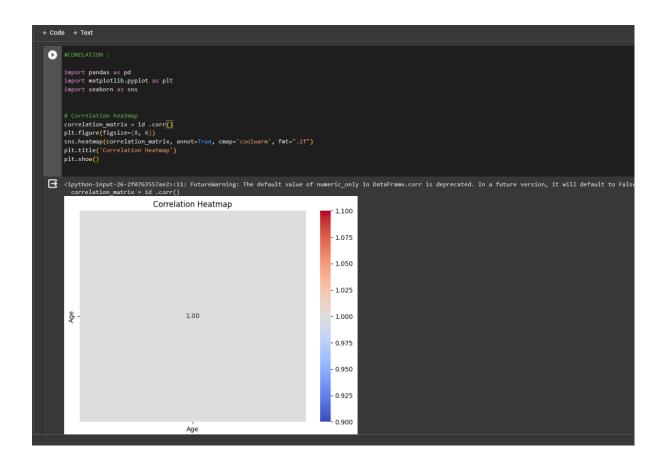
plt.show()
```



CORELATION:

```
#CORELATION :
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
# Correlation heatmap
correlation_matrix = id .corr()
plt.figure(figsize=(8, 6))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f")
plt.title('Correlation Heatmap')
plt.show()
```



SUMMARY REPORTS: