DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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AI ASSIGNMENT

AI-Powered Nutrition Analyzer for Fitness Enthusiasts

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CODE:

1) Load The data set

```python
import pandas as pd
data=pd.read_csv("/content/drive/MyDrive/Colab
Notebooks/Churn_Modelling.csv")
data.head()
```

2) UNI Variate Analysis

```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

```
import seaborn as sns

data=pd.read_csv("/content/drive/MyDrive/Colab
Notebooks/Churn_Modelling.csv")
data.head()
```

3)BI-VARIATE ANALYSIS

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")
data.head()

data=pd.read_csv("/content/drive/MyDrive/Colab
Notebooks/Churn_Modelling.csv")
data.head()
```

4) MULTI – VARIATE ANALYSIS

```
from pydoc import help
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import scale
from sklearn.decomposition import PCA
from sklearn.discriminant_analysis import LinearDiscriminantAnalysis
from scipy import stats
from IPython.display import display,HTML
```

```
%matplotlib inline
np.set_printoptions(suppress=True)
pd.set_option('display.max_rows',20)
import os
print(os.listdir("../NT project/"))
data=pd.read_csv("/content/drive/MyDrive/Colab
Notebooks/Churn_Modelling.csv")
data.head()
```

5) DESCRIPTIVE STATISCTICS

```
import numpy as np
import pandas as pd
from pandas import Series,DataFrame
import scipy
from scipy import stats
data=pd.read_csv("/content/drive/MyDrive/Colab
Notebooks/Churn_Modelling.csv")
data.head()
```

6) HANDLE MISSING VALUE

```
import pandas as pd
```

```
data=pd.read_csv("/content/drive/MyDrive/Colab
Notebooks/Churn_Modelling.csv")
data.head()
```