A 8 PCA wine.pdf

Open with Google Docs

```
5/20/22, 12:30 PM
                                                  A 8 PCA
In [1]:
# Import Libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.decomposition import PCA
from sklearn.preprocessing import scale
In [2]:
# Import Dataset
wine=pd.read_csv('C:/Users/Hp/Downloads/wine.csv
wine
Out[2]:
            Alcohol Malic Ash Alcalinity
                                          Magnesium P
   0
         1
              14.23
                     1.71
                           2.43
                                     15.6
                                                  127
   1
         1
              13.20
                     1.78 2.14
                                     11.2
                                                  100
   2
              13,16
                     2,36
                           2.67
                                     18.6
                                                  101
   3
         1
              14.37
                     1.95
                           2.50
                                     16.8
                                                  113
         1
              13.24
                     2.59
                           2.87
                                     21.0
                                                  118
                 ...
                                                   ...
 173
         3
              13.71
                     5.65
                           2.45
                                     20.5
                                                  95
 174
         3
              13,40
                     3.91
                           2,48
                                     23.0
                                                  102
 175
         3
              13.27
                     4.28
                           2.26
                                     20.0
                                                  120
 176
         3
              13.17
                     2.59
                           2.37
                                     20.0
                                                  120
 177
         3
              14.13
                     4.10 2.74
                                     24.5
                                                   96
178 rows × 14 columns
In [3]:
wine['Type'].value_counts()
Out[3]:
2
      71
      59
1
      48
Name: Type, dtype: int64
```

Page 1 / 13