## **Unit 2.4 Graded Assignment: Data visualization – Scatter Matrix**

#### **Instructions:**

Download the Breast Cancer Wisconsin dataset from <a href="https://www.kaggle.com/datasets/uciml/breast-cancer-wisconsin-data.">https://www.kaggle.com/datasets/uciml/breast-cancer-wisconsin-data.</a>

After downloading, read about scatter matrix and implement it using plotly.

Limit it to only few (5-6) features of your choice. Try to make it as readable as possible (eg. use colors to represent target class).

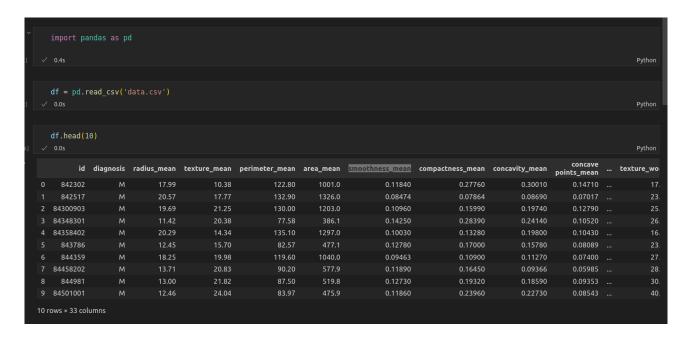
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### **Solution:**

In this assignment we use plotly and pandas to import csv file and present data visualization on given dataset

first we use pandas to import csv file



second we use plotly to represent data in the form of graph

```
dimensions = ['smoothness_mean', 'radius_mean', 'area_mean', 'concavity_mean', 'texture_worst']

v 0.0s

import plotly.express as px

v 0.0s

python

a = px.scatter_matrix(df,dimensions,color='diagnosis',width=1000,height=1000)

v 0.0s

python

a.update_layout(title={
    'text: "Breast Cancer Wisconsin dataset Graph",
    'x':0.5,
    'xanchor': 'center',
    })

v 0.0s

python
```

# after running above commands we get this graph

