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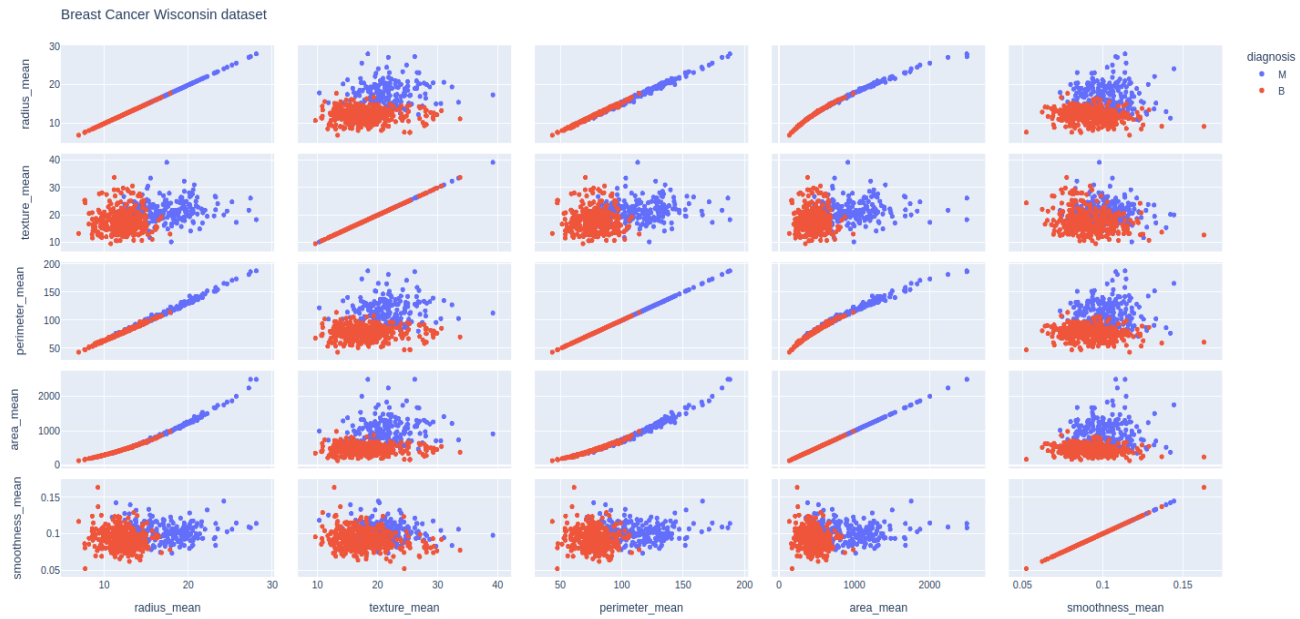
UNIT 2.4:

Assignment

At first we import “plotly.express” as “px” alias and “pandas” as “pd” alias then we read “data.csv” file by using “pd.read_csv()” function and store it in “df”. After this we use “px.scatter_matrix()” function for ploting scatter matrix in which we specify “df” variable that contain data.csv, dimensions of specific five columns to limit it only few features and color to represent target class “diagnosis”.
At the end we use “fig.update_layout()” function to update the default layout of scatter matrix in which we specify title of scatter matrix and width, height of scatter matrix to resize it. Then we use “fig.show()” to show the figure or scatter matrix.

```
import plotly.express as px
import pandas as pd
df = pd.read_csv("data.csv")
fig = px.scatter_matrix(df,
    dimensions=["radius_mean", "texture_mean", "perimeter_mean", "area_mean", "smoothness_mean"],
    color="diagnosis")
fig.update_layout(
    title='Breast Cancer Wisconsin dataset',
    width=1600,
    height=750,
)
fig.show()
```

Output:



UNIT 2_3 Assignment.ipynb

Code | git | Python 3 (ipykernel)

[30]:
```
import plotly.express as px
import pandas as pd
df = pd.read_csv("data.csv")
fig = px.scatter_matrix(df,
    dimensions=["radius_mean", "texture_mean", "perimeter_mean", "area_mean", "smoothness_mean"],
    color="diagnosis")
fig.update_layout(
    title='Breast Cancer Wisconsin dataset',
    width=1600,
    height=750,
)
fig.show()
```