

week_2_day_9

December 8, 2022

```
[102]: import plotly.express as px
import pandas as pd
import plotly.graph_objects as go

df=pd.read_csv("data.csv")
df

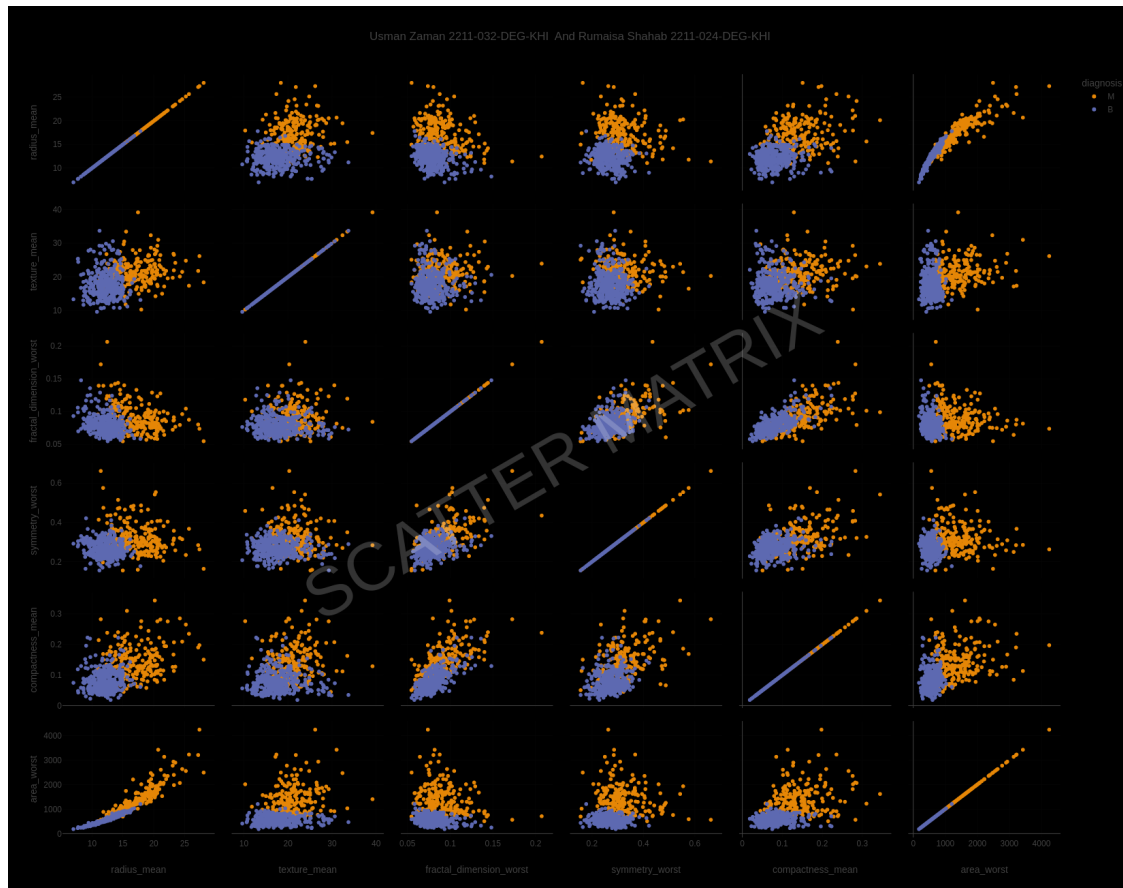
draft_template = go.layout.Template()
draft_template.layout.annotations = [
    dict(
        name="draft watermark",
        text="SCATTER MATRIX",
        textangle=-30,
        opacity=0.2,
        font=dict(color="white", size=100),
        xref="paper",
        yref="paper",
        x=0.5,
        y=0.5,
        showarrow=False,
    )
]
```

```
[103]: fig = px.scatter_matrix(df,
    dimensions=["radius_mean", "texture_mean", "fractal_dimension_worst",
    ↪ "symmetry_worst", "compactness_mean", "area_worst"], width=1300,
    ↪ height=1300, title="Usman Zaman 2211-032-DEG-KHI And Rumaisa Shahab
    ↪ 2211-024-DEG-KHI",
        template=draft_template, color_discrete_sequence=px.colors.
    ↪ qualitative.Vivid,
        color="diagnosis")
fig.update_layout(paper_bgcolor="Black", plot_bgcolor="Black")
fig.show()
```

/opt/conda/lib/python3.10/site-packages/plotly/express/_core.py:279:
FutureWarning:

iteritems is deprecated and will be removed in a future version. Use .items

instead.



```
[ ]: Task Description:  
firstly i created a customized template and then passed it as an argument in_  
↳ the scatter_matrix function to get the desired result.  
I also changed the background colour to mimic the result as i would had used_  
↳ the "plotly_dark" that is a pre-defined template. I played with its_  
↳ perimeters to understand them better by passing them different values
```