

Limitations of pair plots:

The biggest disadvantage with pair plots is, the no. of plots is proportional to no. of features

$$\text{No. of plots} = \binom{\text{No. of features}}{2}$$

$$\text{if \#features} = 4$$

$$\text{\#Plots} = 4C_2 = 6$$

$$\text{if \#features} \text{ then } \text{\#plots} = {}^{10}C_2 = 45$$

So, pair plots is good for less dimensions and for higher dimensions we will learn dimensionality reduction techniques such as PCA & T-SNE