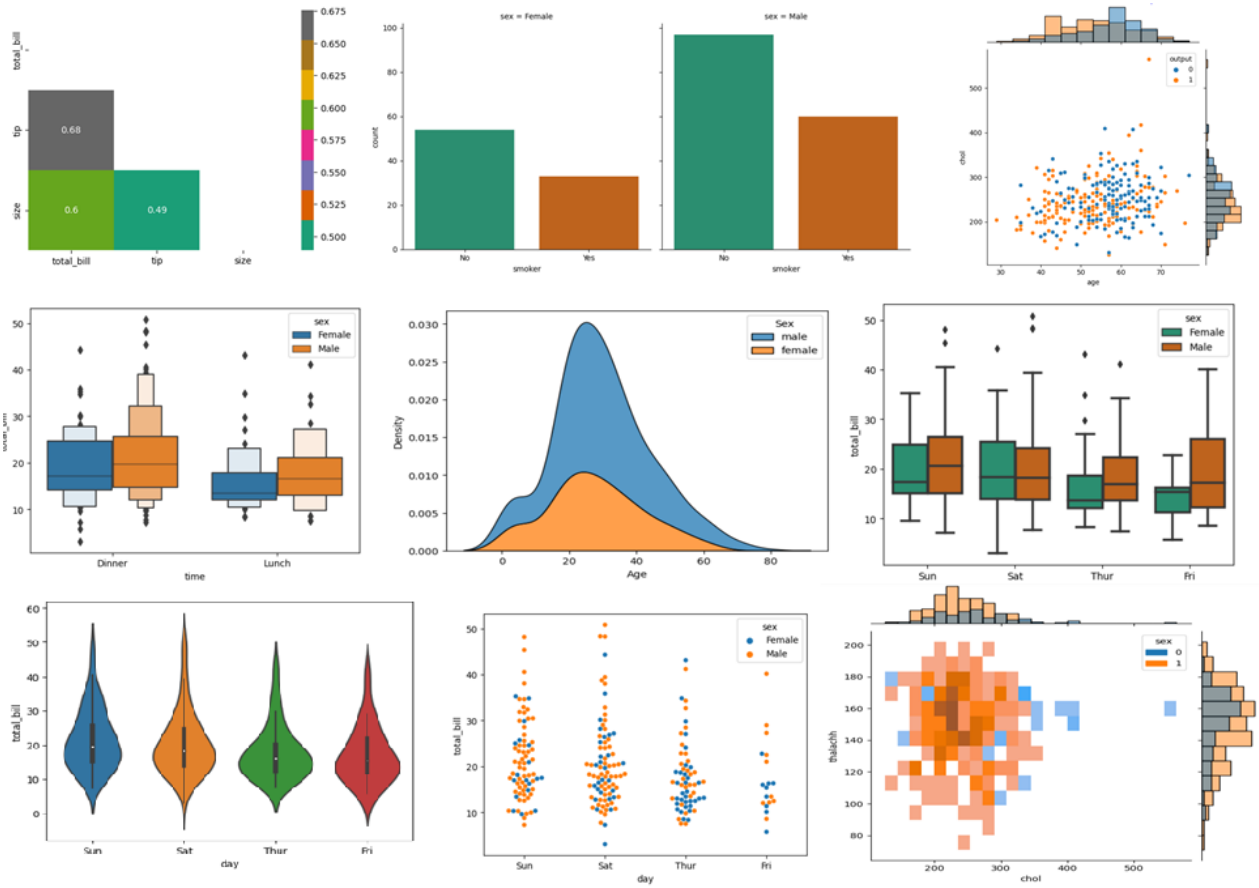
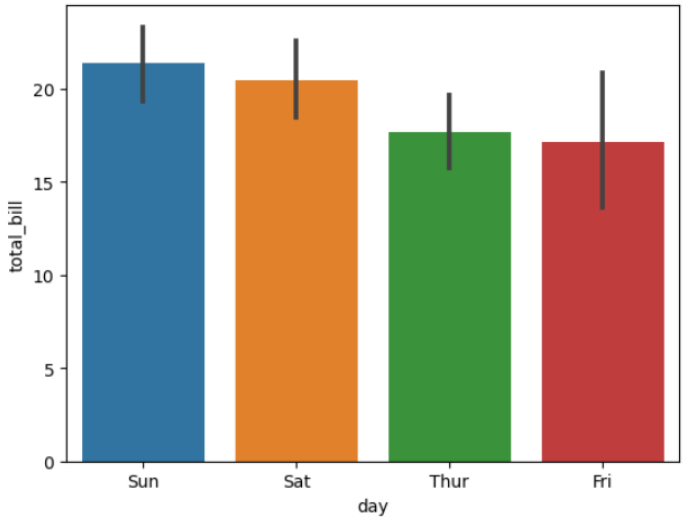
Machine Learning Visualization: Part 1



Barplot:

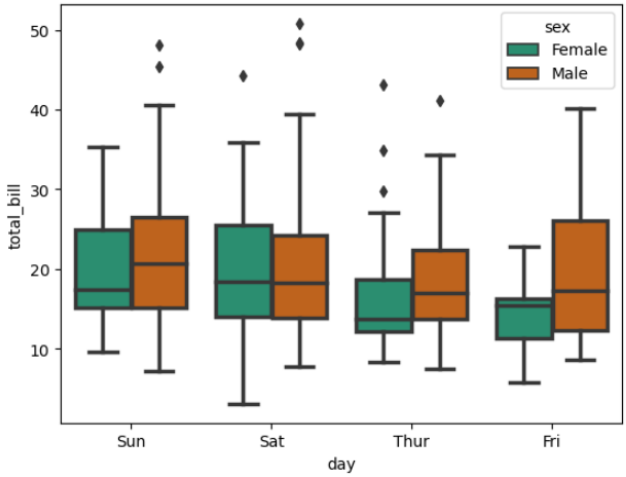
```
sns.barplot(x='day', y='total_bill', data=tips, palette='tab10');
```



Syed Afroz Ali

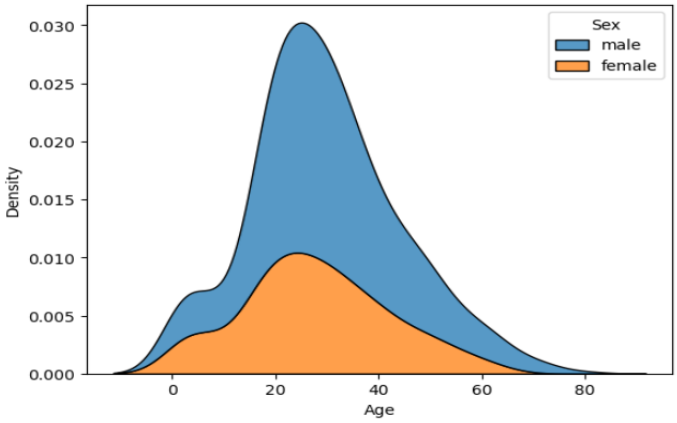
Boxplot

```
sns.boxplot(x='day', y='total_bill', hue='sex', data=tips, linewidth
=2.5, palette='Dark2');
```



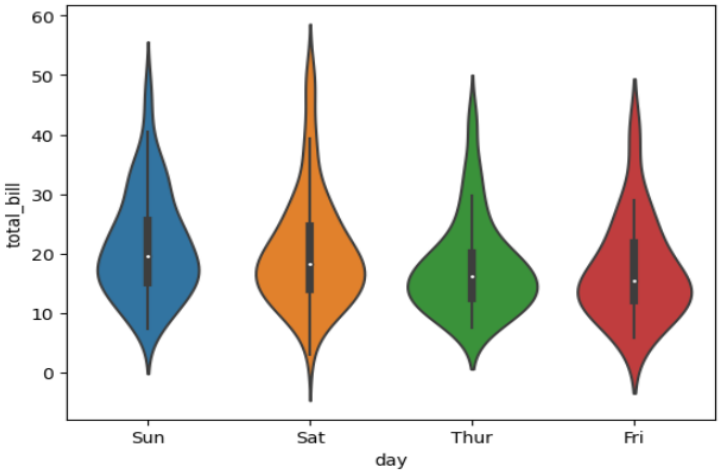
Kdeplot

```
sns.kdeplot(data=df , x='Age', hue='Sex', multiple='stack', palette='tab10');
```



Violinplot

```
sns.violinplot(x="day", y="total_bill", data=tips);
```

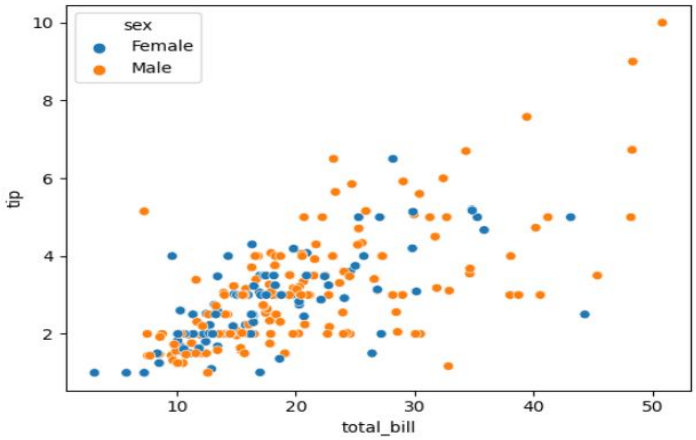


Stripplot

sns.stripplot(x="time", y="total_bill", hue="sex", data=tips);

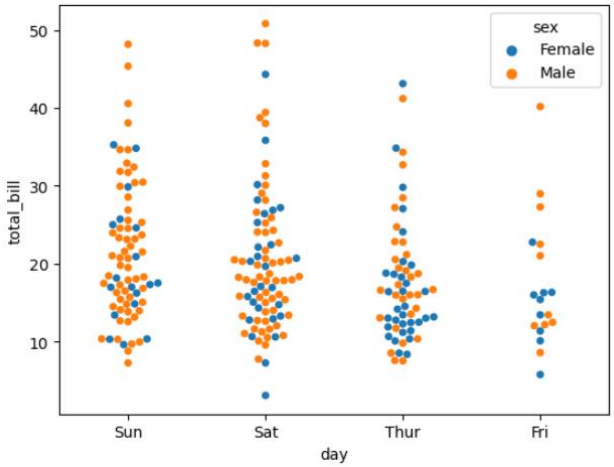
Scatterplot

sns.scatterplot(x = 'total_bill', y = 'tip', hue = 'sex', data = tips);



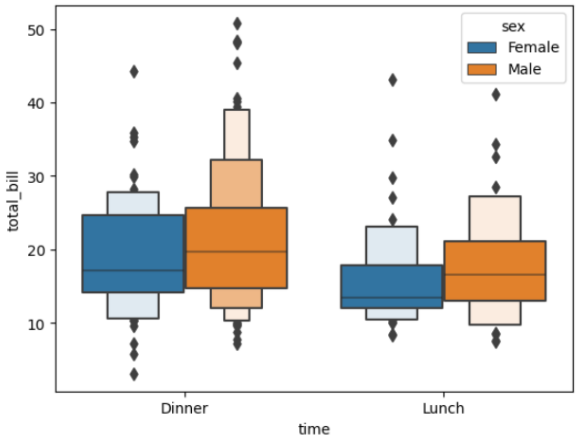
Swarmplot

```
sns.swarmplot(x="day", y="total_bill", hue="sex", data=tips);
```



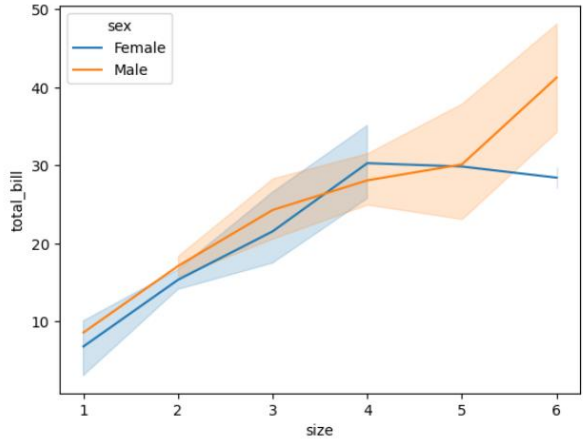
Boxenplot

```
sns.boxenplot( x='time', y="total_bill", hue='sex', data=tips);
```



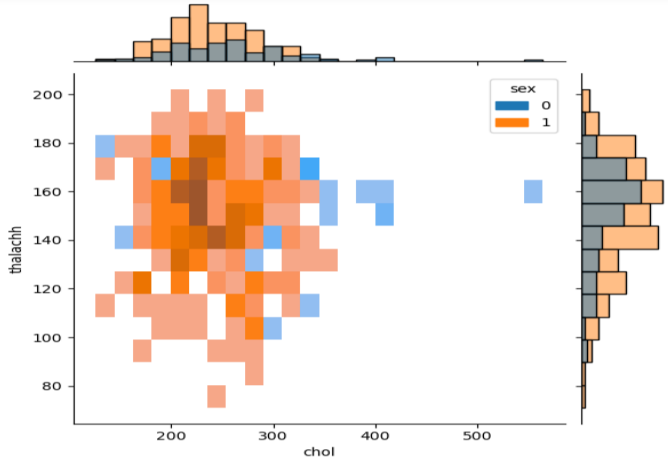
Lineplot

```
sns.lineplot(x="size",y="total_bill",data=tips,hue='sex',markers=True);
```



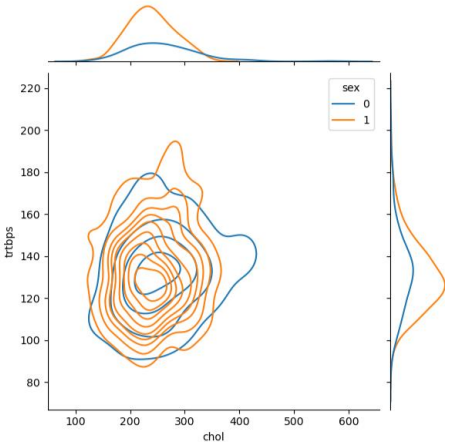
Jointplot

```
sns.jointplot(x="chol", y="thalachh",data=heart,kind="hist",hue='sex');
```



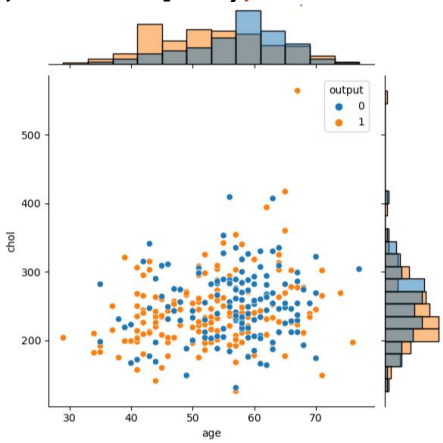
Jointplot

```
sns.jointplot(x="chol",y="trtbps",data=heart,kind="kde",hue='sex');
```



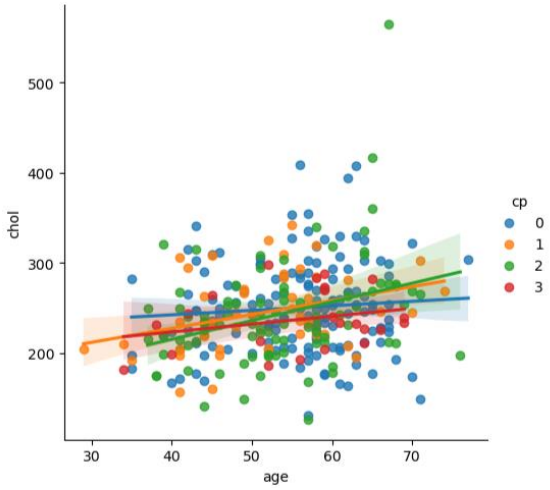
JointGrid

```
g = sns.JointGrid(data=heart, x="age", y="chol", hue="output")
g.plot(sns.scatterplot, sns.histplot);
```



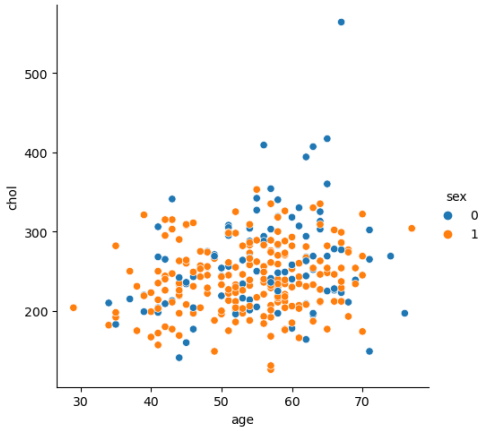
Lmplot

```
g= sns.lmplot(x="age", y="chol", hue="cp", data=heart)
```



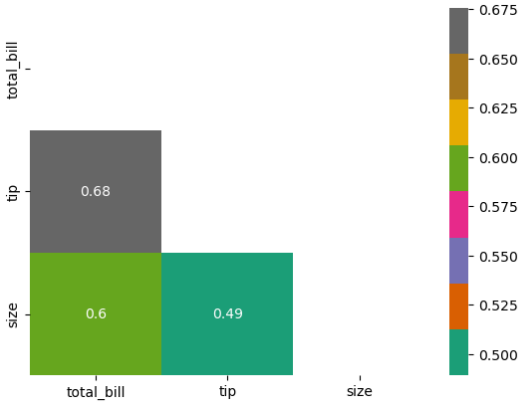
Relplot

```
g = sns.relplot(x="age", y="chol", data=heart,hue='sex')
```



Heatmap

```
mask = np.triu(np.ones_like(tips.corr(), dtype=bool))
sns.heatmap(tips.corr(), mask = mask, annot=True, cmap='Dark2');
```



Catplot

```
sns.catplot(x='smoker', col='sex', kind='count', data=tips
,palette="Dark2");
```