- Day 5 Assignment
Name = Saif Ul Mateen Email = ulmateen@gmail.com
- Practicing Different Py Plots
<pre>import numpy as np import pandas as pd import seaborn as sns import mataletlib pyplot as plt</pre>
<pre>import matplotlib.pyplot as plt import plotly.express as px In [9]: inis = sns load dataset("inis")</pre>
<pre>iris = sns.load_dataset("iris") iris.head() Out[9]:</pre>
0 5.1 3.5 1.4 0.2 setosa 1 4.9 3.0 1.4 0.2 setosa 2 4.7 3.2 1.3 0.2 setosa
3 4.6 3.1 1.5 0.2 setosa 4 5.0 3.6 1.4 0.2 setosa
<pre>fig = px.line(iris, x="sepal_length", y="species", title='Iris') fig.show()</pre>
<pre>In [11]: tips = sns.load_dataset("tips") tips.head()</pre>
Out[11]: total_bill tip sex smoker day time size O 16.99 1.01 Female No Sun Dinner 2
1 10.34 1.66 Male No Sun Dinner 3 2 21.01 3.50 Male No Sun Dinner 3
3 23.68 3.31 Male No Sun Dinner 2 4 24.59 3.61 Female No Sun Dinner 4
<pre>fig = px.pie(tips, values='tip', names='day', title='Calculating Tips') fig.show()</pre>
<pre>In [13]: kashti = sns.load_dataset("titanic") kashti.head()</pre>
Out[13]: survived pclass sex age sibsp parch fare embarked class who adult_male deck embark_town alive alone 1 1 1 female 38.0 1 0 71.2833 C First woman False C Cherbourg yes False
2 1 3 female 26.0 0 0 7.9250 S Third woman False NaN Southampton yes True 3 1 1 female 35.0 1 0 53.1000 S First woman False C Southampton yes False
4 0 3 male 35.0 0 0 8.0500 S Third man True NaN Southampton no True In [24]: fig = px.bar(tips, x='day', y='tip')
fig.show()
<pre>iris["e"] = iris["sepal_width"]/100 fig = px.scatter(iris, x="sepal_width", y="sepal_length", color="species",</pre>
In [26]: fig = nv histogram(tins v="total hill" v="tin" color="sev" marginal="rug"
fig = px.histogram(tips, x="total_bill", y="tip", color="sex", marginal="rug",
<pre>In [32]: df = px.data.gapminder() fig = px.scatter(df.query("year==2007"), x="gdpPercap", y="lifeExp",</pre>
<pre>size="pop", color="continent",</pre>
<pre>In [39]: fig = px.box(tips, x="total_bill", y="time") fig.show()</pre>
<pre>In [45]: fig = px.scatter(kashti, x="sex", y="fare")</pre>
<pre>fig = px.scatter(kashti, x="sex", y="fare") fig.show()</pre>