plotly_demo

April 18, 2020

[25]:
```
import seaborn as sns
from IPython.display import Image
```

[15]:
```
df = sns.load_dataset('titanic')
df.head()
```

[15]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
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

[16]:
```
df['survived'].value_counts()
#1 is Survived
#0 is not Survived
```

[16]:
```
0    549
1    342
Name: survived, dtype: int64
```

[17]:
```
df['embarked'].value_counts()
df['embarked'] = df['embarked'].fillna('S')
```

[18]:
```
df['embarked'].value_counts()
```

[18]:
```
S    646
C    168
Q     77
Name: embarked, dtype: int64
```

[19]:
```
import plotly
import plotly.graph_objs as go
import plotly.offline as py
from plotly.offline import init_notebook_mode, iplot
import warnings
warnings.simplefilter('ignore')
import cufflinks as cf
cf.go_offline
py.init_notebook_mode(connected=True)
```

0.0.1 Passengers Survived by Gender

[31]:
```
trace = go.Bar(
        x = df['sex'],
        y = df['survived'].value_counts() ,
        marker = dict(
           color = 'green',
           line = dict(
             color='blue',
             width = 1
           )
        ),
)

data = [trace]

layout = go.Layout(
          title = "Passengers survived by sex",
          xaxis = dict(
             title = "Gender"
          ),
          yaxis = dict(
             title = "Survived"
          )
)
fig = go.Figure(data=data, layout=layout)
#py.iplot(fig)
fig
```

[30]:
```
trace1 = go.Bar (
        x= df['embarked'].value_counts().index,
        y= df['embarked'].value_counts(),
        marker = dict(
        color='aqua',
              line = dict(
              color='blue',
              width =1,
```

```
            ),
        ) ,
)

data = [trace1]

layout = go.Layout(
        title= "Embarked Count",
        xaxis = dict(
            title='Embarked'
        ),
        yaxis = dict(
            title = 'Count'
        )
)

fig = go.Figure(data=data, layout=layout)
#py.iplot(fig)
fig
```

[12]:
```
import seaborn as sns
```

[13]:
```
sns.countplot(x='embarked', data=df);
```