

session4_barplot

January 16, 2022

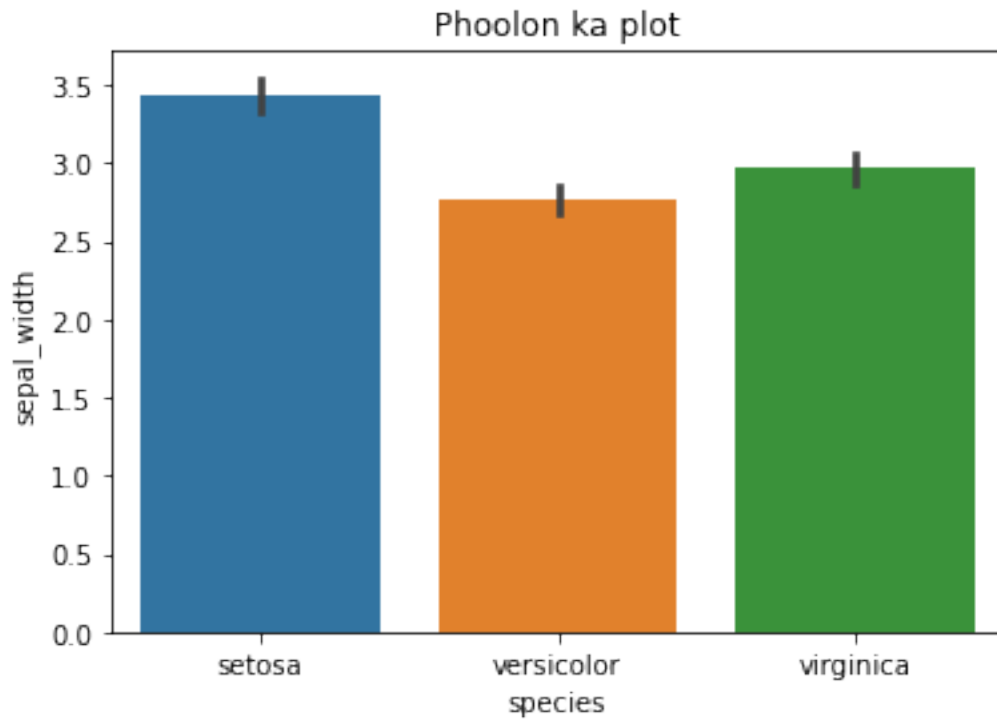
0.0.1 Barplot on IRIS (Flower) data

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

#load data set
phool = sns.load_dataset("iris")
phool

#draw a bar plot
sns.barplot(x="species",y="sepal_width",data=phool) # x categorical data has y_
↳ is numeric data
plt.title("Phoolon ka plot")
plt.show

[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```



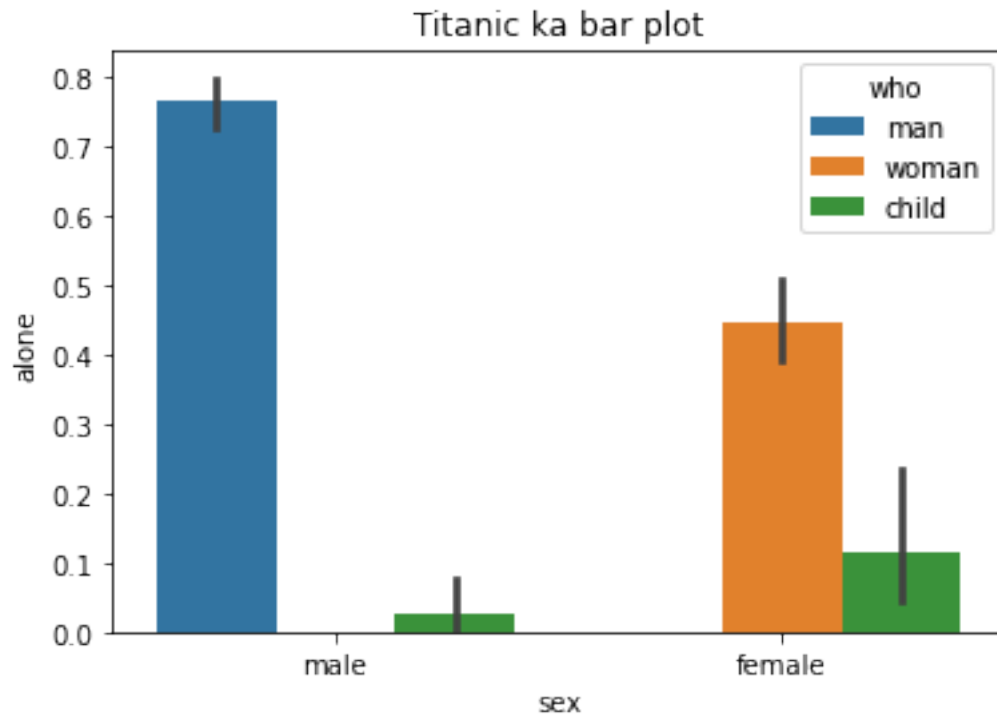
0.0.2 Barplot on Titanic Data

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

#load data set
kashti = sns.load_dataset("titanic")
kashti

#draw a bar plot
sns.barplot(x="sex",y="alone",hue="who",data=kashti) # x categorical data ha
    ↳ y is numeric data
plt.title("Titanic ka bar plot")
plt.show
```

```
[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```



0.0.3 Barplot on Titanic Data with Detailing

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

#load data set
kashti = sns.load_dataset("titanic")
kashti

#figure size
plt.figure(figsize=(4,4))

#draw a bar plot
# order of data
# ci graph se dande hatane k lye
#
sns.barplot(x="sex",y="alone",hue="who",data=kashti,
            order=["female","male"],color="brown",ci=None)
plt.title("Titanic ka plot")

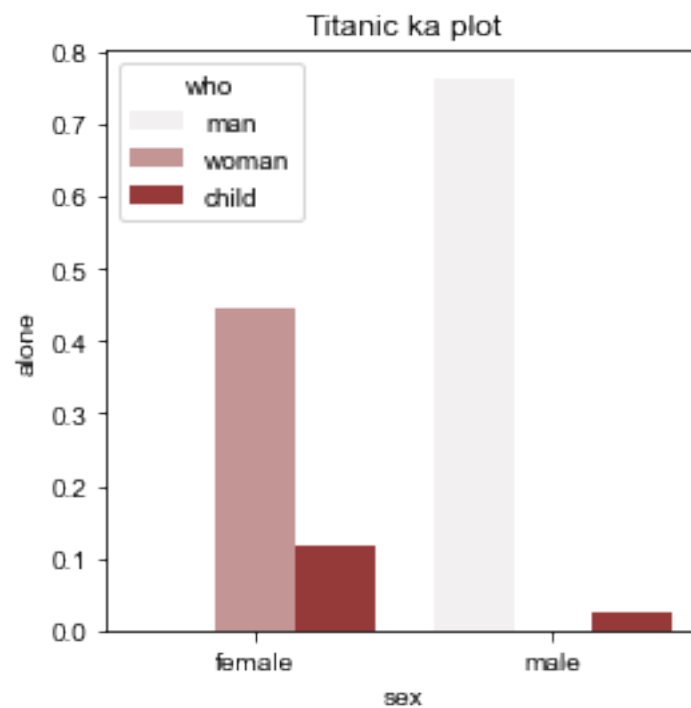
#style
```

```
sns.set_style(style=None, rc=None)
sns.set_style("white")
```

```
#limits x and y
#plt.xlim(0)
#plt.ylim(0)
```

```
plt.show
```

```
[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```



Palette and Dande removing (Line 17)

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np

#load data set
```

```

kashti = sns.load_dataset("titanic")
kashti

#figure size
plt.figure(figsize=(4,4))

#draw a line plot
# order of data
# ci graph se dande hatane k lye
#
sns.barplot(x="sex",y="alone",hue="who",data=kashti,
            order=["female","male"],color="brown",ci=None,palette="pastel")
plt.title("Titanic ka plot")

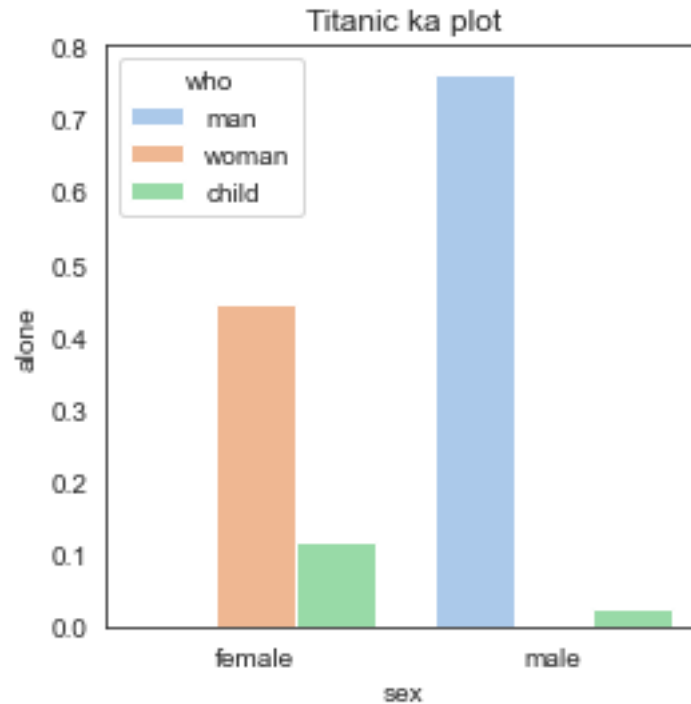
#style
sns.set_style(style=None, rc=None)
sns.set_style("white")

#limits x and y
#plt.xlim(0)
#plt.ylim(0)

plt.show

```

```
[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```



0.0.4 Estimator usage

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
from numpy import mean
#load data set
kashti = sns.load_dataset("titanic")
kashti

#figure size
plt.figure(figsize=(4,4))

#draw a line plot
# order of data
# ci graph se dande hatane k lye (Confidence Interval)
# yahan tm ne order hataya tha tabhe sahe plot hua yad karlena tmhe lazmi yad
    ↳ aega
# color saturation
sns.
    ↳ barplot(x="class",y="fare",hue="sex",data=kashti,color="brown",ci=None,palette="pastel",est
    ↳ 5)
```

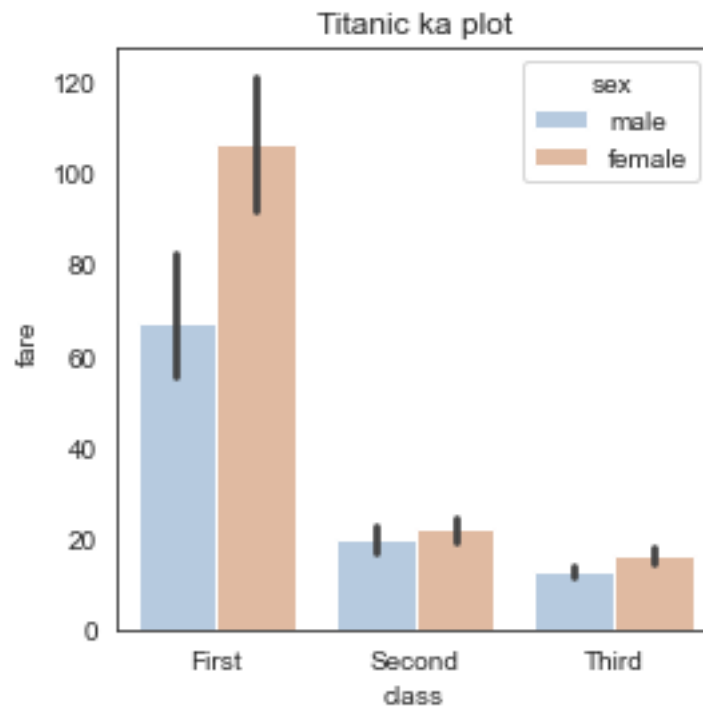
```
plt.title("Titanic ka plot")

#style
sns.set_style(style=None, rc=None)
sns.set_style("white")

#limits x and y
#plt.xlim(0)
#plt.ylim(0)

plt.show
```

```
[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```



0.0.5 Horizontal plot

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
```

```

from numpy import mean
#load data set
kashti = sns.load_dataset("titanic")
kashti

#figure size
plt.figure(figsize=(4,4))

#draw a line plot
# order of data
# ci graph se dande hatane k lye (Confidence Interval)
# yahan tm ne order hataya tha tabhe sahe plot hua yad karlena tmhe lazmi yad
↪aega
# color saturation
sns.
↪barplot(x="fare",y="class",hue="sex",data=kashti,color="brown",ci=None,palette="pastel",est
plt.title("Titanic ka plot")

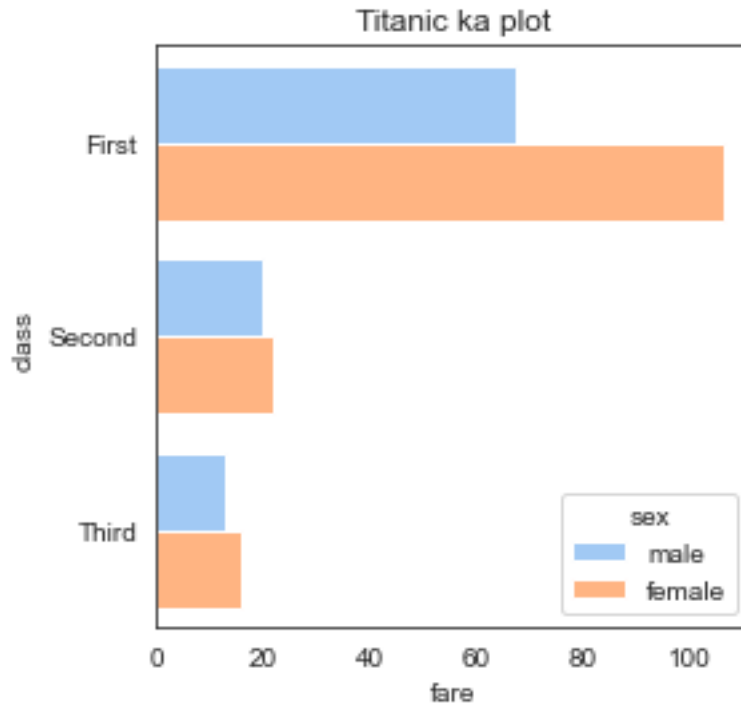
#style
sns.set_style(style=None, rc=None)
sns.set_style("white")

#limits x and y
#plt.xlim(0)
#plt.ylim(0)

plt.show

```

```
[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```

0.0.6 More functionalities related to Design

```
[ ]: # import libraries
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
from numpy import mean
#load data set
kashti = sns.load_dataset("titanic")
kashti

#figure size
plt.figure(figsize=(4,4))

#draw a line plot
# order of data
# ci graph se dande hatane k lye (Confidence Interval)
# yahan tm ne order hataya tha tabhe sahe plot hua yad karlena tmhe lazmi yad
    ↳ aega
# color saturation
# line width= motai bar ki lines ki, #edgecolor= simple yar edge ka color,
    ↳ errcolor=bech wale dande ka color,
#facecolor=rgba
```

```

#sns.
    ↪ barplot(x="fare",y="class",hue="sex",data=kashti,color="brown",ci=None,palette="pastel",est
sns.barplot(x="class", y="fare",data=kashti,linewidth=4, facecolor=(1,0,0,1)
,errcolor=".2", edgecolor=".2")

plt.title("Titanic ka plot")

#style
sns.set_style(style=None, rc=None)
sns.set_style("white")

#limits x and y
#plt.xlim(0)
#plt.ylim(0)

plt.show

```

```
[ ]: <function matplotlib.pyplot.show(close=None, block=None)>
```

