Data Visualization - II

In []: | j

import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

df1=pd.read_csv('Titanic.csv')
df1

Out[]:	Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Eı
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	C85	
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	
4	. 5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	
•••	•••											
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	NaN	
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	B42	
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.4500	NaN	
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C148	
890	891	0	3	Dooley, Mr.	male	32.0	0	0	370376	7.7500	NaN	

Patrick

891 rows × 12 columns

In []:
 df=pd.DataFrame(df1)
 df.head()

Out[]:		PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Emb
	0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	
	1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	C85	
	2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	
	3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	
	4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	

In []: | df.describe()

Out[]: **PassengerId** Survived **Pclass** Age SibSp **Parch Fare** 891.000000 891.000000 714.000000 891.000000 891.000000 891.000000 count 891.000000 446.000000 0.383838 2.308642 29.699118 0.523008 0.381594 mean 32.204208 257.353842 0.486592 0.836071 14.526497 1.102743 0.806057 49.693429 std 1.000000 0.000000 1.000000 0.420000 0.000000 0.000000 0.000000 min 25% 223.500000 0.000000 2.000000 20.125000 0.000000 0.000000 7.910400 446.000000 50% 0.000000 3.000000 28.000000 0.000000 0.000000 14.454200 **75**% 668.500000 1.000000 3.000000 38.000000 1.000000 0.000000 31.000000

	Passengerld	PassengerId Survived Pclass		Age	SibSp	Parch	Fare	
max	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200	

```
In [ ]:
        df.info()
        <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 891 entries, 0 to 890
       Data columns (total 12 columns):
            Column
                        Non-Null Count Dtype
        0
            PassengerId
                        891 non-null
                                       int64
            Survived
                        891 non-null
                                       int64
        1
        2
            Pclass
                        891 non-null
                                       int64
        3
                        891 non-null
            Name
                                       object
        4
            Sex
                        891 non-null
                                       object
        5
                        714 non-null
                                       float64
            Age
                        891 non-null
                                       int64
        6
            SibSp
        7
                        891 non-null
                                       int64
            Parch
        8
            Ticket
                        891 non-null
                                       object
        9
            Fare
                        891 non-null
                                       float64
                        204 non-null
        10 Cabin
                                       object
        11 Embarked
                        889 non-null
                                       object
       dtypes: float64(2), int64(5), object(5)
       memory usage: 83.7+ KB
In [ ]:
        df.columns
dtype='object')
In [ ]:
        sns.set_style('whitegrid')
        plt.figure(figsize=(10,4))
        sns.boxplot(x='Age',y='Sex',data=df,hue='Survived')
```



