

Assignment no.09

In []: Aim:
Use the inbuilt dataset 'titanic' as used in the above problem. Plot a box plot of distribution of age with respect to each gender along with the information about survived or not. (Column names : 'sex' and 'age')

In [1]: `import seaborn as sns`
`import matplotlib.pyplot as plt`

In [3]: `titanic = sns.load_dataset('titanic')`
`titanic`

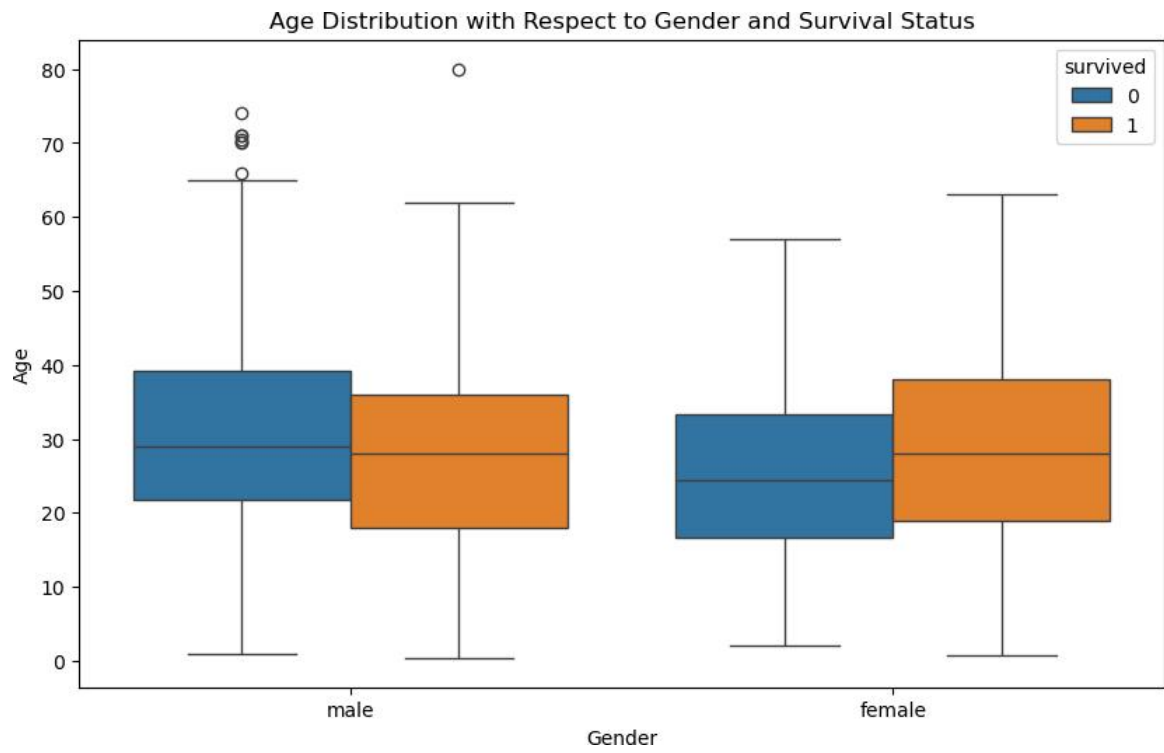
Out[3]:

	su rvived	pclass	sex	age	sibsp	parch	fare	embarked	class	who
0	0	3	male	22.0	1	0	7.2500	S	Third	man
1	1	1	female	38.0	1	0	71.2833	C	First	woman
2	1	3	female	26.0	0	0	7.9250	S	Third	woman
3	1	1	female	35.0	1	0	53.1000	S	First	woman
4	0	3	male	35.0	0	0	8.0500	S	Third	man
...
886	0	2	male	27.0	0	0	13.0000	S	Second	man
887	1	1	female	19.0	0	0	30.0000	S	First	woman
888	0	3	female	NaN	1	2	23.4500	S	Third	woman
889	1	1	male	26.0	0	0	30.0000	C	First	man
890	0	3	male	32.0	0	0	7.7500	Q	Third	man

891 rows × 15 columns

In [9]: `plt.figure(figsize=(10,6))`
`sns.boxplot(x='sex', y='age', hue='survived', data=titanic)`
`plt.title('Age Distribution with Respect to Gender and Survival Status')`
`plt.xlabel('Gender')`
`plt.ylabel('Age')`

`# Display the plot`
`plt.show()`



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