Handling of Outliers at least for the "Age" variable.

5

0

3

```
In [1]:
          | import pandas as pd
             import numpy as np
             import matplotlib.pyplot as plt
             pd.pandas.set_option('display.max_columns', None)
          dataset = pd.read_csv('Titanic_Dataset.csv')
In [2]:
             print(dataset.shape)
             dataset.head()
             (891, 12)
    Out[2]:
                                                                           Sex Age SibSp Parch
                 Passengerld Survived Pclass
                                                                  Name
                                                                                                       Ticket
                                                                                                                 Fare Cabin Embarked
              0
                           1
                                    0
                                            3
                                                   Braund, Mr. Owen Harris
                                                                          male 22.0
                                                                                                                                     S
                                                                                         1
                                                                                                    A/5 21171
                                                                                                               7.2500
                                                                                                                        NaN
                                                Cumings, Mrs. John Bradley
                                                                         female 38.0
              1
                           2
                                            1
                                                                                         1
                                                                                                     PC 17599 71.2833
                                                                                                                        C85
                                                                                                                                     С
                                                      (Florence Briggs Th...
                                                                                                    STON/O2.
              2
                           3
                                    1
                                            3
                                                     Heikkinen, Miss. Laina female 26.0
                                                                                         0
                                                                                                               7.9250
                                                                                                                        NaN
                                                                                                                                     S
                                                                                                      3101282
                                                Futrelle, Mrs. Jacques Heath
                           4
              3
                                                                         female 35.0
                                                                                                0
                                                                                                       113803
                                                                                                              53.1000
                                                                                                                       C123
                                                                                                                                     S
                                                           (Lily May Peel)
```

```
In [4]:  Max_thresold = dataset['Age'].quantile(0.95)
max_thresold
```

Allen, Mr. William Henry

male 35.0

0

0

373450

8.0500

NaN

S

Out[4]: 56.0

Out[5]:

	Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
11	12	1	1	Bonnell, Miss. Elizabeth	female	58.0	0	0	113783	26.5500	C103	S
33	34	0	2	Wheadon, Mr. Edward H	male	66.0	0	0	C.A. 24579	10.5000	NaN	S
54	55	0	1	Ostby, Mr. Engelhart Cornelius	male	65.0	0	1	113509	61.9792	B30	С
94	95	0	3	Coxon, Mr. Daniel	male	59.0	0	0	364500	7.2500	NaN	S
96	97	0	1	Goldschmidt, Mr. George B	ma l e	71.0	0	0	PC 17754	34.6542	A5	С
116	117	0	3	Connors, Mr. Patrick	male	70.5	0	0	370369	7.7500	NaN	Q
170	171	0	1	Van der hoef, Mr. Wyckoff	male	61.0	0	0	111240	33.5000	B19	S
195	196	1	1	Lurette, Miss. Elise	female	58.0	0	0	PC 17569	146.5208	B80	С
232	233	0	2	Sjostedt, Mr. Ernst Adolf	male	59.0	0	0	237442	13.5000	NaN	S

Out[6]: 4.0

Out[8]:

	Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
7	8	0	3	Palsson, Master. Gosta Leonard	male	2.00	3	1	349909	21.0750	NaN	S
16	17	0	3	Rice, Master. Eugene	male	2.00	4	1	382652	29.1250	NaN	Q
43	44	1	2	Laroche, Miss. Simonne Marie Anne Andree	female	3.00	1	2	SC/Paris 2123	41.5792	NaN	С
78	79	1	2	Caldwell, Master. Alden Gates	ma l e	0.83	0	2	248738	29.0000	NaN	S
119	120	0	3	Andersson, Miss. Ellis Anna Maria	fema l e	2.00	4	2	347082	31.2750	NaN	S
164	165	0	3	Panula, Master. Eino Viljami	male	1.00	4	1	3101295	39.6875	NaN	S
172	173	1	3	Johnson, Miss. Eleanor lleen	female	1.00	1	1	347742	11.1333	NaN	S

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Out[11]:

• 	Passengerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	C85	С
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S
885	886	0	3	Rice, Mrs. William (Margaret Norton)	female	39.0	0	5	382652	29.1250	NaN	Q
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	NaN	S
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	B42	S
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C148	С
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500	NaN	Q

635 rows × 12 columns

CONCLUSION