| ### Importing the libra import numpy as np import pandas as pd import matplotlib.pyplo import seaborn as sns | | | | | | | |
|---|--|--|--|--|-------------------|-----------|--|
| <pre>### Importing the datas dataset=pd.read_csv("Ti dataset</pre> | | | | | | | |
| PassengerId Survived 0 1 0 1 2 1 2 3 1 3 4 1 4 5 0 | Cumings, Mrs. John Bradle Futrelle, Mrs. Jacque | Braund, Mr. Owen Harris male ey (Florence Briggs Th female Heikkinen, Miss. Laina female es Heath (Lily May Peel) female | e 26.0 0 0 STO | Ticket Fare Cabir A/5 21171 7.2500 Nan PC 17599 71.2833 C85 N/O2. 3101282 7.9250 Nan 113803 53.1000 C123 373450 8.0500 Nan | 5 C N S B S | | |
| 886 887 0 887 888 1 888 889 0 889 890 1 890 891 0 | | Montvila, Rev. Juozas male am, Miss. Margaret Edith female Catherine Helen "Carrie" female Behr, Mr. Karl Howell male | | | S S S S S C | | |
| 891 rows × 12 columns dataset.tail() Passengerld Survived 886 887 0 887 888 1 | 2 Montvil | Name Sex Age a, Rev. Juozas male 27.0 Margaret Edith female 19.0 | SibSp Parch Ticket 0 0 211536 1 0 0 112053 3 | | | | |
| 888 889 0 889 890 1 890 891 0 dataset.shape (891, 12) | 1 Behr, I | Helen "Carrie" female NaN Mr. Karl Howell male 26.0 sley, Mr. Patrick male 32.0 | | | | | |
| 0 PassengerId 891 n | , 0 to 890 | | | | | | |
| 3 Name 891 n 4 Sex 891 n 5 Age 714 n 6 SibSp 891 n 7 Parch 891 n 8 Ticket 891 n 9 Fare 891 n 10 Cabin 204 n 11 Embarked 889 n | on-null int64 on-null object on-null object on-null float64 on-null int64 on-null int64 on-null object on-null object on-null object on-null object | | | | | | |
| dtypes: float64(2), int memory usage: 83.7+ KB dataset.describe() Passengerld Surviv count 891.000000 891.0000 mean 446.000000 0.3838 std 257.353842 0.4865 | ed Pclass Age 00 891.000000 714.000000 89 38 2.308642 29.699118 | SibSp Parch 1.000000 891.000000 891.00 0.523008 0.381594 32.20 1.102743 0.806057 49.69 | 14208 | | | | |
| min 1.000000 0.0000 25% 223.500000 0.0000 50% 446.000000 0.0000 75% 668.500000 1.0000 max 891.000000 1.0000 | 00 1.000000 0.420000 00 2.000000 20.125000 00 3.000000 28.000000 00 3.000000 38.000000 | 0.000000 0.000000 0.00 | 00000 .0400 .4200 .0000 | | | | |
| Survived -0.005007 1 Pclass -0.035144 -0 | urvived Pclass Age .005007 -0.035144 0.036847000000 -0.338481 -0.077221338481 1.000000 -0.369226 .077221 -0.369226 1.000000 - | 0.083081 0.018443 -0.54950 | 58 07 00 57 | | | | |
| Parch -0.001652 0 | .081629 | | 25 | | | | |
| Passengerld - 1 | -0.005 | -0.035 | 0.037 | -0.058 | -0.0017 | 0.013 | |
| -0.005 | 1 | -0.34 | -0.077 | -0.035 | 0.082 | 0.26 | |
| - Sco.0- | -0.34 | 1 | -0.37 | 0.083 | 0.018 | -0.55 | |
| Age - 0.037 | -0.077 | -0.37 | 1 | -0.31 | -0.19 | 0.096 | |
| dsqis | -0.035 | 0.083 | -0.31 | 1 | 0.41 | 0.16 | |
| | 0.082 | 0.018 | -0.19 | 0.41 | 1 | 0.22 | |
| Passengerld | 0.26 Survived | -0.55 Pclass | 0.096 Age | 0.16 SibSp | 0.22 Parch | 1 Fare | |
| ### Handling Null Value ##1.delete the null val ##2.delete row/column ##3.Replace with mean m dataset.isnull().any() PassengerId False Survived False Pclass False | ues | | | | | | |
| Name False Sex False Age True SibSp False Parch False Ticket False Fare False Cabin True Embarked True dtype: bool | | | | | | | |
| dataset.isnull().sum() PassengerId 0 Survived 0 Pclass 0 Name 0 Sex 0 Age 177 SibSp 0 | | | | | | | |
| Parch 0 Ticket 0 Fare 0 Cabin 687 Embarked 2 dtype: int64 | | | | | | | |
| dataset["Cahin"] f::: | ataset["Age"].mean(),inp | lace= True) | | | | | |
| dataset.isnull().sum() PassengerId 0 Survived 0 Pclass 0 Name 0 Sex 0 | <pre>ataset["Age"].mean(),inp (dataset["Cabin"].mode()</pre> | | | | | | |
| dataset.isnull().sum() PassengerId 0 Survived 0 Pclass 0 Name 0 | | | | | | | |
| dataset.isnull().sum() PassengerId 0 Survived 0 Pclass 0 Name 0 Sex 0 Age 0 SibSp 0 Parch 0 Ticket 0 Fare 0 Cabin 0 Embarked 2 dtype: int64 dataset.head() PassengerId Survived Po 1 2 1 2 3 1 3 4 1 | lass 3 Bra 1 Cumings, Mrs. John Bradley 3 Futrelle, Mrs. Jacques | Name Sex aund, Mr. Owen Harris male (Florence Briggs Th female Heikkinen, Miss. Laina female Heath (Lily May Peel) female | 38.0 1 0 26.0 0 0 STON/0 35.0 1 0 | A/5 21171 7.2500 B96 B98 PC 17599 71.2833 C85 O2. 3101282 7.9250 B96 B98 113803 53.1000 C123 | 5 C 8 S 8 S | | |
| dataset.isnull().sum() PassengerId | dataset["Cabin"].mode() lass 3 Bra 1 Cumings, Mrs. John Bradley 3 H 1 Futrelle, Mrs. Jacques 3 Al | Name Sex aund, Mr. Owen Harris male (Florence Briggs Th female Heikkinen, Miss. Laina female | 22.0 1 0 38.0 1 0 26.0 0 0 STON/0 35.0 1 0 | A/5 21171 7.2500 B96 B98 PC 17599 71.2833 C85 O2. 3101282 7.9250 B96 B98 | S S S S S S | | |
| dataset.isnull().sum() PassengerId | dataset["Cabin"].mode() lass 3 Bra 1 Cumings, Mrs. John Bradley 3 H 1 Futrelle, Mrs. Jacques 3 Al | Name Sex aund, Mr. Owen Harris male (Florence Briggs Th female Heikkinen, Miss. Laina female Heath (Lily May Peel) female | 22.0 1 0 38.0 1 0 26.0 0 0 STON/0 35.0 1 0 | A/5 21171 7.2500 B96 B98 PC 17599 71.2833 C85 O2. 3101282 7.9250 B96 B98 113803 53.1000 C123 | S S S S S S | | |
| dataset.isnull().sum() PassengerId 0 Survived 0 Pclass 0 Name 0 Sex 0 Age 0 SibSp 0 Parch 0 Ticket 0 Fare 0 Cabin 0 Embarked 2 dtype: int64 dataset.head() PassengerId Survived Pc 0 1 0 1 2 1 2 3 1 3 4 1 4 5 0 sns.boxplot(dataset.Age <axes:> 80 - 70 - 60 - 50 -</axes:> | lass 3 Bra 1 Cumings, Mrs. John Bradley 3 H 1 Futrelle, Mrs. Jacques 3 Al | Name Sex aund, Mr. Owen Harris male (Florence Briggs Th female Heikkinen, Miss. Laina female Heath (Lily May Peel) female | 22.0 1 0 38.0 1 0 26.0 0 0 STON/0 35.0 1 0 | A/5 21171 7.2500 B96 B98 PC 17599 71.2833 C85 O2. 3101282 7.9250 B96 B98 113803 53.1000 C123 | S S S S S S | | |
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