import numpy as np import matplotlib.pyplot as plt import seaborn as sns data1 = pd.read_csv("train.csv") In [2]: In [3]: data1.head() Passengerld Survived Pclass Sex Age SibSp Parch Ticket Fare Cabin Embarked Out[3]: Name 0 0 Braund, Mr. Owen Harris 0 A/5 21171 7.2500 NaN S 1 male 22.0 1 Cumings, Mrs. John Bradley (Florence Briggs Th... female 38.0 PC 17599 71.2833 C85 3 S 2 1 3 Heikkinen, Miss. Laina female 26.0 0 0 STON/O2. 3101282 7.9250 NaN Futrelle, Mrs. Jacques Heath (Lily May Peel) female 35.0 113803 53.1000 S 4 5 0 3 Allen, Mr. William Henry 0 S male 35.0 0 373450 8.0500 NaN data1.tail() Passengerld Survived Pclass Ticket Fare Cabin Embarked Out[4]: Name Sex Age SibSp Parch 886 887 0 2 Montvila, Rev. Juozas male 27.0 211536 13.00 NaN S 887 888 1 1 Graham, Miss. Margaret Edith 0 112053 30.00 B42 S female 19.0 888 889 0 3 Johnston, Miss. Catherine Helen "Carrie" 1 2 W./C. 6607 23.45 NaN S female NaN 889 890 Behr, Mr. Karl Howell С 1 male 26.0 111369 30.00 C148 3 890 891 0 Q Dooley, Mr. Patrick male 32.0 370376 7.75 data1.shape Out[5]: (891, 12) checking for is null() data1.isnull().sum() In [7]: PassengerId Out[7]: Survived 0 Pclass 0 Name 0 0 Sex 177 Age SibSp 0 Parch 0 Ticket 0 0 Fare Cabin 687 Embarked dtype: int64 In [15]: sns.heatmap(data1.isnull()) plt.title("HEAT MAP") plt.show() HEAT MAP - 1.0 0 43 86 129 172 215 258 301 344 473 516 559 602 645 688 731 774 817 - 0.8 - 0.6 Passengerid Survived Pclass Name Sex Sex Age SibSp Parch Ticket Ticket Cabin sns.lineplot(data=data1,x="Age",y="Embarked") plt.title("BAR PLOT") plt.show() plt.figure(figsize=(6,6)) sns.scatterplot(x='Pclass', y='Age', data=data1) plt.title("SCATTER PLOT") plt.show() SCATTER PLOT 80 70 60 50 ₽ 40 30 20 10 0 1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00 Pclass sns.catplot(data=data1, x='Age', y='Pclass') plt.title("CAT PLOT") plt.show() CAT PLOT 3.00 2.75 2.50 2.25 2.00 1.75 1.50 1.25 1.00 ()\$ \$\text{MESSESSITE(1)} \text{MESSESSITE(1)} \text

import pandas as pd