import seaborn as sns

import pandas as pd

import matplotlib.pyplot as plt

# Assuming your data is stored in a CSV file

df = pd.read\_csv(r"C:\Users\SAITM\Desktop\titanic.csv", encoding="latin1")

# Set Seaborn style

sns.set\_style("whitegrid")

# Choose a suitable column for x and y axes

# For example, let's visualize the distribution of age by passenger class

sns.violinplot(x='Pclass', y='Age', data=df, hue='Sex', split=True)

plt.title('Distribution of Age by Passenger Class')

plt.xlabel('Passenger Class')

plt.ylabel('Age')

plt.legend(title='Sex')

plt.show()

import matplotlib.pyplot as plt

import pandas as pd

import seaborn as sns

# Read the Titanic dataset from a CSV file df = pd.read\_csv(r"C:\Users\SAITM\Desktop\titanic.csv", encoding="ISO-8859-1")

# Display the first few rows of the DataFrame

print(df.head())

# Create a scatter plot of Age vs. Fare

sns.scatterplot(x='Age', y='Fare', data=df)

# Set the x and y axis labels

plt.xlabel('Age')

plt.ylabel('Fare')

# Show the plot

plt.show()

# Create a box plot of Age by Sex

sns.boxplot(x='Sex', y='Age', data=df)

# Set the x and y axis labels

plt.xlabel('Sex')

plt.ylabel('Age')

# Show the plot

plt.show()

import matplotlib.pyplot as plt

import pandas as pd

import seaborn as sns

# Read the dataset

df = pd.read\_csv(r"C:\Users\SAITM\Desktop\titanic.csv", encoding='latin1')

# Plotting

# Here, I'll assume you want to plot 'Age' against 'Fare' with hue based on 'Sex'

sns.lmplot(x='Age', y='Fare', data=df, fit\_reg=False, hue='Sex')

# Labels

plt.xlabel('Age')

plt.ylabel('Fare')

plt.title('Age vs Fare')

# Show plot

plt.show()

# Create a factor plot (formerly factorplot) to visualize Ticket, Fare, and Cabin

g = sns.factorplot(x='Ticket',

y='Fare',

data=df,

hue='Cabin',

col='Embarked',

kind='box') # Use kind='box' to create box plots

# Rotate x-axis labels

g.set\_xticklabels(rotation=-45)

# Show the factor plot

plt.show()