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# -*- coding: utf-8 -*-
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import matplotlib.pyplot as plt
import seaborn as sns
#Function 1
def Collision_Locations_in_NYC(selected_data):
    plt.figure(figsize=(12, 8))
    plt.scatter(selected_data['longitude'], selected_data['latitude'], alpha=0.5)
    plt.title('Collision Locations in NYC')
    plt.xlabel('Longitude')
plt.ylabel('Latitude')
    plt.grid(True)
    plt.show()
    return plt.show()
#function 2
def Spatial_Distribution_of_Collisions_by_Borough(selected_data):
    plt.figure(figsize=(12, 8))
    sns.scatterplot(x='longitude', y='latitude', hue='borough', data=selected_data,
alpha=0.5)
    plt.title('Spatial Distribution of Collisions by Borough')
    plt.xlabel('Longitude')
    plt.ylabel('Latitude')
    plt.legend(title='Borough')
    plt.show()
    return plt.show()
#function 3
def distribution_of_injuries_and_fatalities(selected_data):
    plt.figure(figsize=(12, 6))
    sns.boxplot(x='borough', y='number_of_persons_injured', data=selected_data,
palette='viridis')
    sns.boxplot(x='borough', y='number_of_persons_killed', data=selected_data,
palette='Reds', width=0.4)
    plt.title('Distribution of Injuries and Fatalities by Borough')
    plt.xlabel('Borough')
    plt.ylabel('Count')
    plt.show()
    return plt.show()
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