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#importing packages
import numpy as np
import pandas as pd
from matplotlib import pyplot as plt
import seaborn as sns
import plotly.express as px
import warnings
warnings.filterwarnings(action = 'ignore')
#importing dataset
df Swiggy = pd.read csv('Swiggy.csv', sep = ',')
df_Swiggy
#data processing
df_Swiggy.columns
df_Swiggy.isnull().sum()
df_Swiggy.describe()
df Swiggy.info()
df_Swiggy['Rating'].unique()
['Rating'] = df_Swiggy['Rating'].str.replace('--', '0').astype(float)
df Swiggy['Rating'].unique()
#cost for two
df_Swiggy['Cost_for_Two'].unique()
def data_processing(string):
 cost = string.split(' ')[1]
 return cost
df_Swiggy['Cost_for_Two'] = df_Swiggy['Cost_for_Two'].apply(data_processing)
df Swiggy['Cost for Two'] = df Swiggy['Cost for Two'].astype('int')
df Swiggy['Cost for Two'].unique()
df_Swiggy.rename(columns = {'Cost_for_Two' : 'Cost_for_Two (₹)'}, inplace = True)
df Swiggy
#Distribution of 'Ratings'
df_valid_Ratings = df_Swiggy[df_Swiggy['Rating'] > 0]
df valid Ratings
#Analyse "Approx Cost of 2 People" vs "Rating". Find out the relationship between them
df_Highest_Rated_Restaurants = df_Swiggy[df_Swiggy['Rating'] >= 4.0]
df Highest Rated Restaurants
#Highest Rated Restaurants
df_Highest_Rated_Restaurants = df_Highest_Rated_Restaurants.loc[:, ['Shop_Name',
'Rating','Cost for Two (₹)']]
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df Highest Rated Restaurants = df Highest Rated Restaurants.groupby(['Shop Name',
'Rating'])['Cost for Two (₹)'].agg('mean')
df_Highest_Rated_Restaurants = df_Highest_Rated_Restaurants.reset_index()
df Highest Rated Restaurants
#Plotly Plot
fig = px.scatter(x = df Highest Rated Restaurants['Cost for Two (₹)'],
          y = df Highest Rated Restaurants['Rating'],
          color = df Highest Rated Restaurants['Rating'],
          size = df Highest Rated Restaurants['Cost for Two (₹)'],
          labels = {'x' : 'Approx. Cost for Two (₹)', 'y' : 'Rating', 'color' : 'Rating Indicator'})
fig.update layout(template = 'plotly dark', title = "Analyse 'Approx Cost of 2 People' vs 'Rating'")
fig.show()
#Top 15 Expensive & Highest Rated Restaurants with Approx. Cost for 2 People
df Expensive Restaurants = df Highest Rated Restaurants.sort values(by = 'Cost for Two
(₹)', ascending = False)
df Expensive Restaurants
#Plotly Plot
fig = px.bar(data frame = df Expensive Restaurants,
        x = df_Expensive_Restaurants['Shop_Name'][0:30],
       y = df_Expensive_Restaurants['Cost_for_Two (₹)'][0:30],
        color = df_Expensive_Restaurants['Rating'][0:30],
       labels = {'x' : 'Restaurant_Name', 'y' : 'Approx. Cost_for_Two (₹)', 'color' : 'Rating'})
fig.update layout(template = 'plotly dark',
           title = 'Top 15 Expensive & Highest Rated Restaurants with Approx. Cost for 2
People')
fig.show()
```