ScatterPlots

December 6, 2021

Scatter Plot Classification

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[2]: from matplotlib import pyplot as plt
import pandas as pd
from sklearn.preprocessing import LabelEncoder
df = pd.read_csv ('YelpDataset.csv', index_col = 0)
x = df.drop('stars', axis = 1)
y = df['stars']
def convert(data):
    encode = LabelEncoder()
    data['business_id'] = encode.fit_transform(data.business_id)
    data['city'] = encode.fit_transform(data.city)
    data['state'] = encode.fit_transform(data.state)
    data['categories'] = encode.fit_transform(data.categories)
    data['review_id'] = encode.fit_transform(data.review_id)
    data['date'] = encode.fit_transform(data.date)
    data['text'] = encode.fit_transform(data.text)
    data=data.fillna(-999)
    return data
x = convert(x)
plt.figure(figsize=(5,8))
plt.scatter(x['city'], x['review_count'], c = y)
c_bar = plt.colorbar()
c_bar.set_label('Star Ratings')
plt.xlabel("City")
plt.ylabel("Review Count")
plt.title("Star Rating based on City and Review Count")
plt.tight_layout()
plt.show()
```



