

Bx no 8
4/10/25

Interactive Dashboards with Tableau using google sheets Data.

Aim:

To create an interactive Tableau dashboard that integrate data from google sheets and visualize it using bar charts, line plots & of sales or demographic data.

Materials / tools Required:

- Tableau Desktop or Tableau Public
- Google account with google sheets
- Sample Sales or demographic dataset
- Internet Connection.

Procedure:

Step 1: Prepare the Data

Step 2: Connect Tableau to google sheets

Step 3: Create Individual visualizations

→ Bar charts (Sales by Product
or Region)

→ Line plot (Sales over time)

→ Scatter plot (Customer Demographic
or profit vs sales)

Step 5: Publish or Share.



sns. scatterplot (data=df, x='Annual Income (k\$)',
y='spending score (1-100)',
hue='cluster',
palette='Set2')

plt.title ('Customer segments')

plt.show()

from sklearn.datasets import load_wine
from sklearn.decomposition import PCA
from sklearn.metrics import silhouette_score
from sklearn.cluster import clustering
import numpy as np

wine = load_wine()

X = pd.DataFrame (wine.data, columns=wine.feature_names)

base_clusterings = []

for K in [3, 4, 5]:

Km = KMeans (n_clusters=K, random_state)

base_clusterings.append (Km.fit_predict(X_scaled))

def CPA_ensemble (clusterings):

n_samples = len (clusterings[0])

Result:

Created on interactive Tableau
dashboard linked to google sheets,
allowing users to explore sales trends,
analyze demographics.



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for clustering in clusterings:

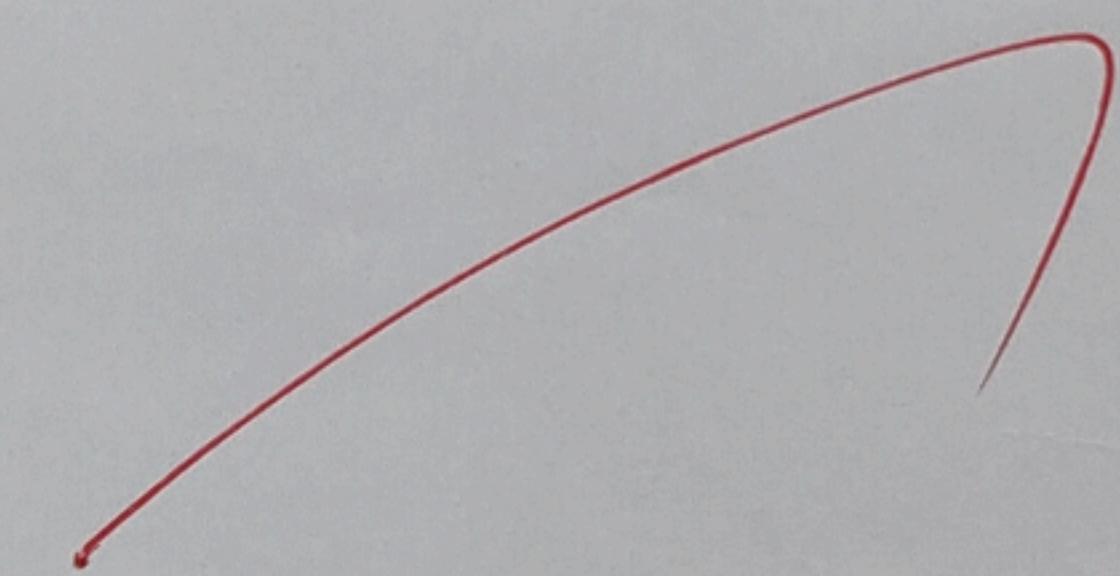
for i in range (n-samples):

for j in range (n-samples):

if Clustering[i] == Clustering[j]

similarity = matrix[i][j] +

similarity_matrix = similarity - matrix / len /



~~for~~ Result :

Created an interactive Tableau dashboard

linked to google sheets, allowing users to

explore sales trends, compare product perfor-

analyze demographics.



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