Buzz or Noise?

Clustering with DBSCAN

Prompts

- Perform DBSCAN on my dataset

Strategy

- Prepare the data
- Perform DBSACN
- Plot results

Code & Results

1. Prepare the data

This code scales the features.

```python
from sklearn.preprocessing import StandardScaler

# --- Scale the data ---
scaler = StandardScaler()
data_scaled = scaler.fit_transform(data)
```

2. Train the Model

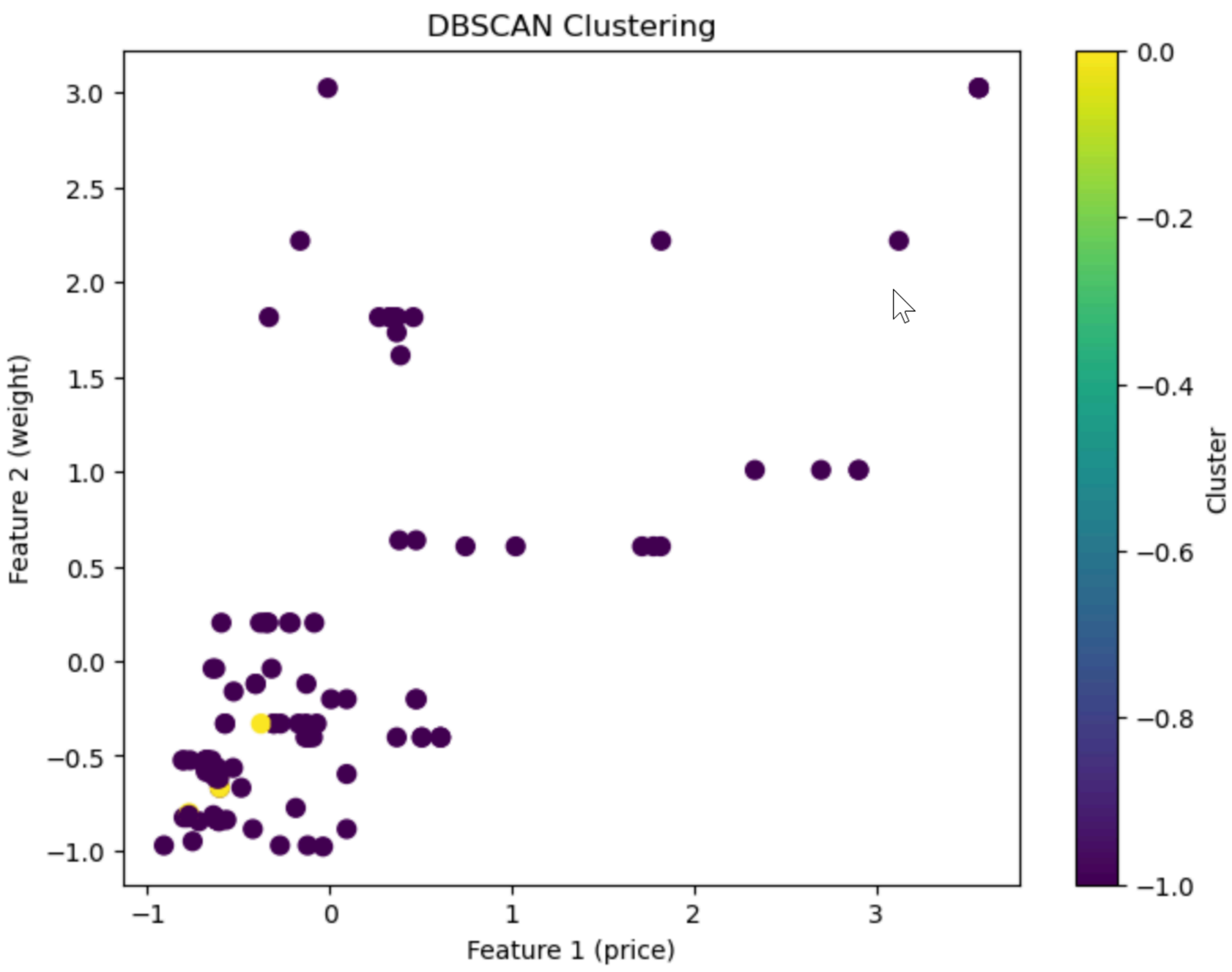
This code performs DBSCAN.

```python
import matplotlib.pyplot as plt
from sklearn.cluster import DBSCAN

# --- Run DBSCAN ---
dbscan = DBSCAN(eps=0.5, min_samples=5)  # tune these!
labels = dbscan.fit_predict(data_scaled)
```

This code plots two features for visualization.

```python
# --- Plot two features for visualization (choose any two) ---
plt.figure(figsize=(8, 6))
plt.scatter(data_scaled[:, 0], data_scaled[:, 1], c=labels, cmap='viridis', s=50)
plt.title("DBSCAN Clustering")
plt.xlabel("Feature 1 (price)")
plt.ylabel("Feature 2 (weight)")
plt.colorbar(label="Cluster")
plt.show()
```



Made by: @katerynakononova
Website: https://katerynakononova.github.io/meowlearning/
Book: https://www.amazon.com/dp/BOCW9SFYXF