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import numpy as np
import matplotlib.pyplot as plt
from sklearn.cluster import KMeans
from sklearn.datasets import make_blobs

X, _ = make_blobs(n_samples=300, centers=4, cluster_std=0.60, random_state=0)

kmeans = KMeans(n_clusters=4)
kmeans.fit(X)

centroids = kmeans.cluster_centers_
labels = kmeans.labels_

plt.scatter(X[:, 0], X[:, 1], c=labels, cmap='viridis')

plt.scatter(centroids[:, 0], centroids[:, 1], s=200, c='red', marker='X')
plt.title('K-Means Clustering')
plt.show()
```



