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```
[1]: import numpy as np
      import pandas as pd
     from sklearn.decompositior
     from sklearn.preprocessing
      from sklearn.datasets impo
     import matplotlib.pyplot a
     data = load iris()
     X = pd.DataFrame(data.data
     y = data.target
      scaler = StandardScaler()
     X_scaled = scaler.fit_trar
     n components = 2
     pca = PCA(n_components=n_c
     X pca = pca.fit transform(
      explained_variance = pca.
     print("Explained Variance
      print("Cumulative Explaine
```

Explained Variance Ratio: [0.72962445 0.22850762]
Cumulative Explained Variance: [0.72962445 0.95813207]