Lesson 29: K-Means Clustering
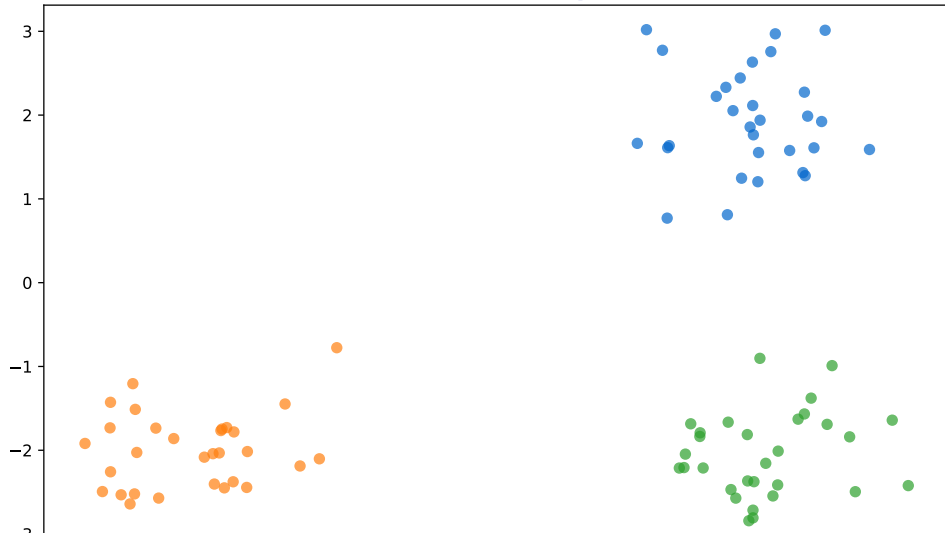## Data Science with Python – BSc Course
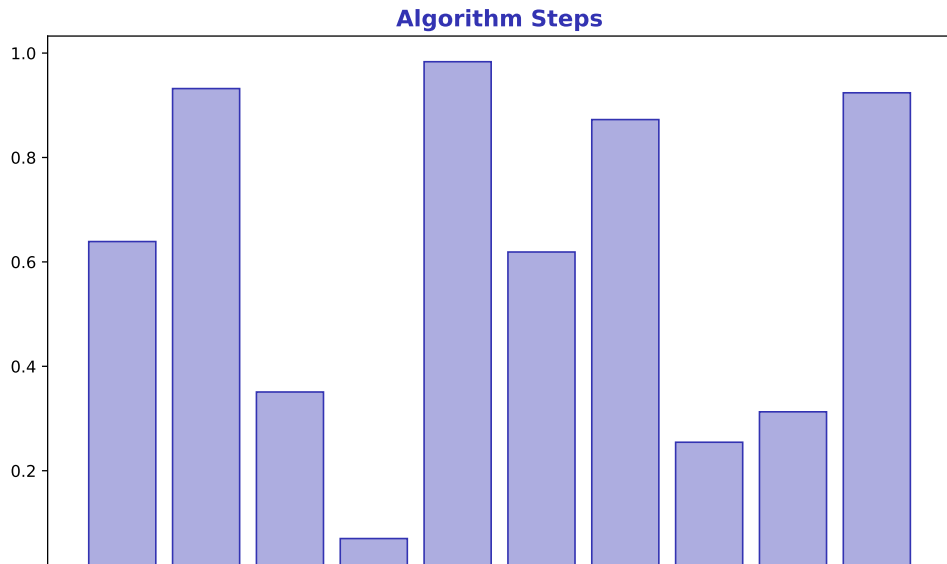
45 Minutes

Learning Objectives

After this lesson, you will be able to:

- Apply K-Means algorithm
- Choose optimal K (elbow method)
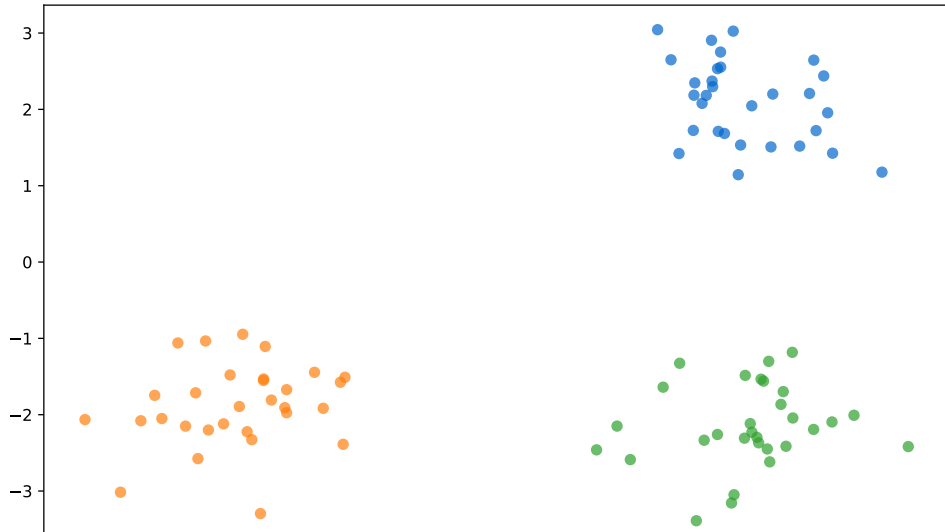- Interpret cluster centers
- Segment financial assets

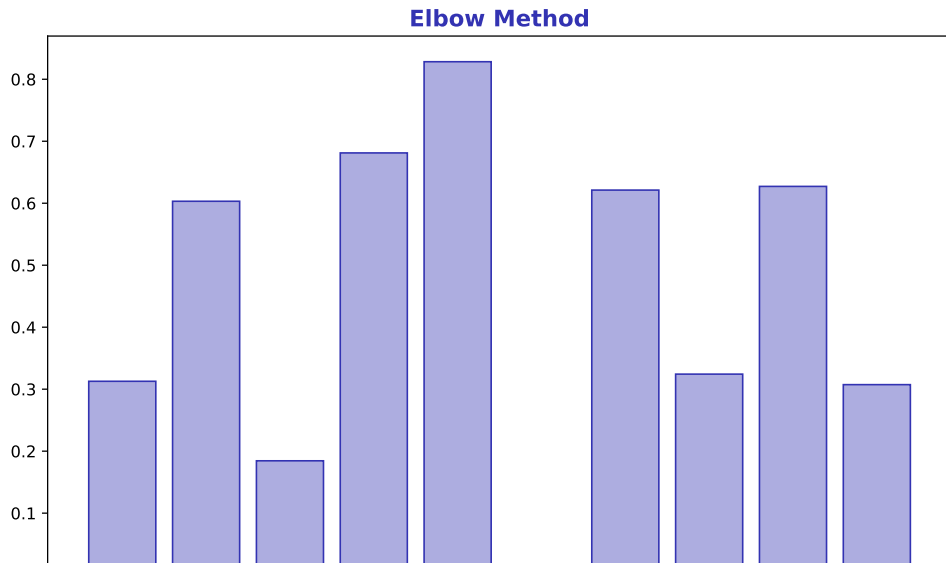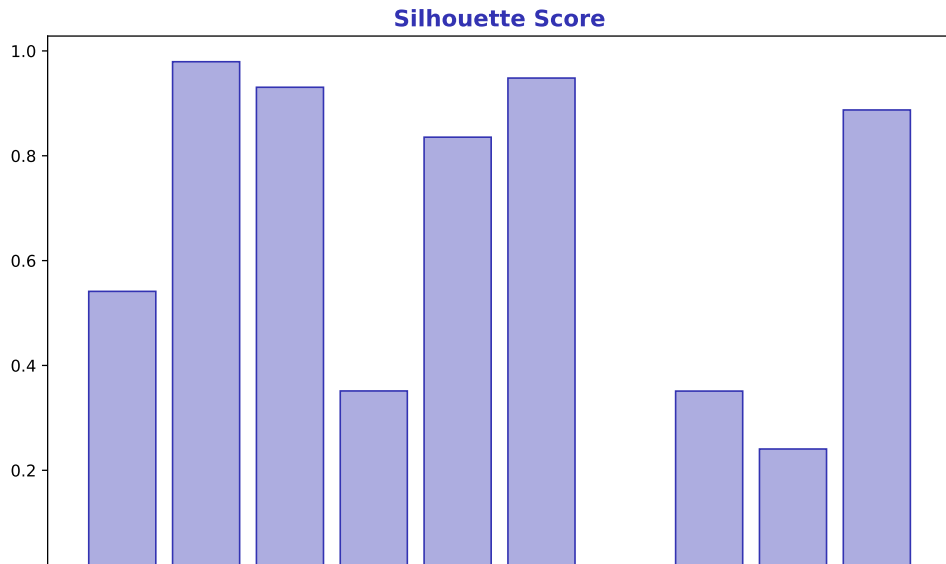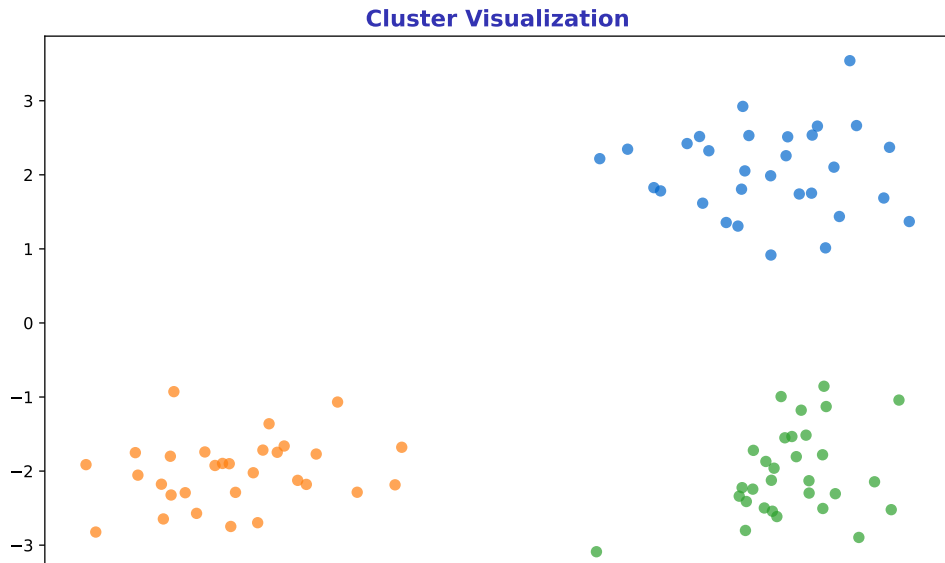**Building towards your final project**

Kmeans Concept

Algorithm Steps

Sklearn Kmeans

Elbow Method

Silhouette Score

Cluster Visualization

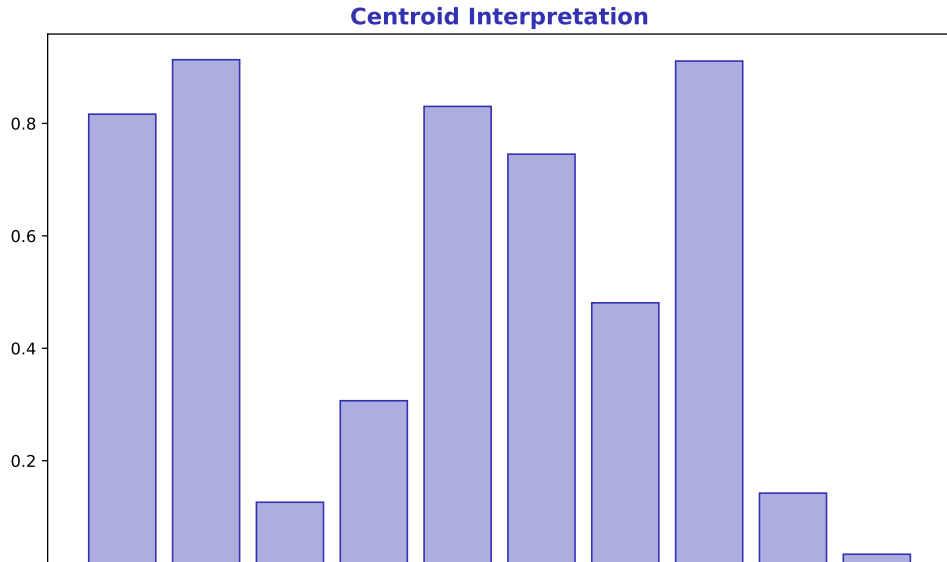Cluster Visualization

Centroid Interpretation

Asset Clustering

Lesson Summary
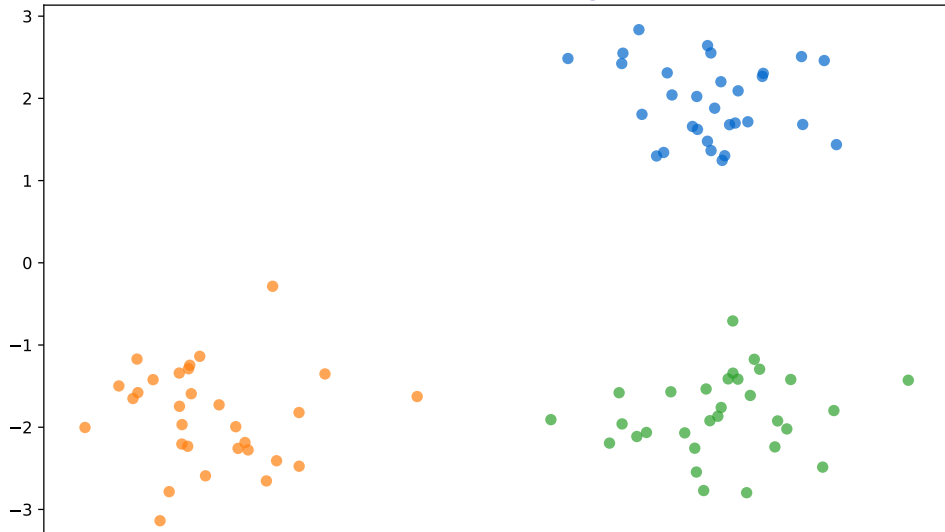
Key Takeaways:

- Apply K-Means algorithm
- Choose optimal K (elbow method)
- Interpret cluster centers
- Segment financial assets

Apply these skills in your final project