### **Advanced Unsupervised Learning Techniques**

**Topics**:

* **Advanced Clustering Algorithms**:
  + DBSCAN, Gaussian Mixture Models (GMM), and Spectral Clustering.
* **Dimensionality Reduction Techniques**:
  + t-SNE, UMAP (Uniform Manifold Approximation and Projection) for large-scale visualization.

**Self - Paced Content**:

* **Advanced Clustering Algorithms**:  
  [DBSCAN Clustering Algorithm Explained Simply](https://youtu.be/Lh2pAkNNX1g?feature=shared)[Gaussian Mixture Models (GMM) Explained](https://youtu.be/wT2yLNUfyoM?feature=shared)
* **Dimensionality Reduction Techniques**: [StatQuest: t-SNE, Clearly Explained](https://youtu.be/NEaUSP4YerM?feature=shared)[UMAP explained | The best dimensionality reduction?](https://youtu.be/6BPl81wGGP8?feature=shared)[Visualizing High Dimension Data Using UMAP Is A Piece Of Cake Now](https://youtu.be/015vL0cJfA0?feature=shared)