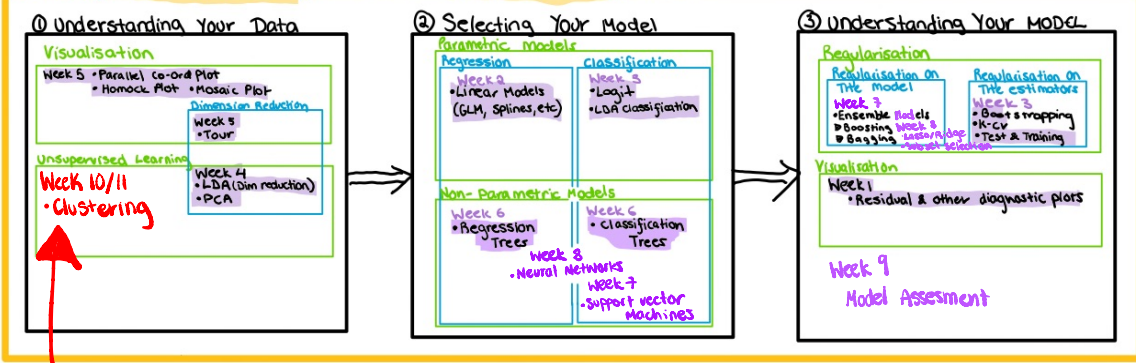


Week 11: Model Based Clustering

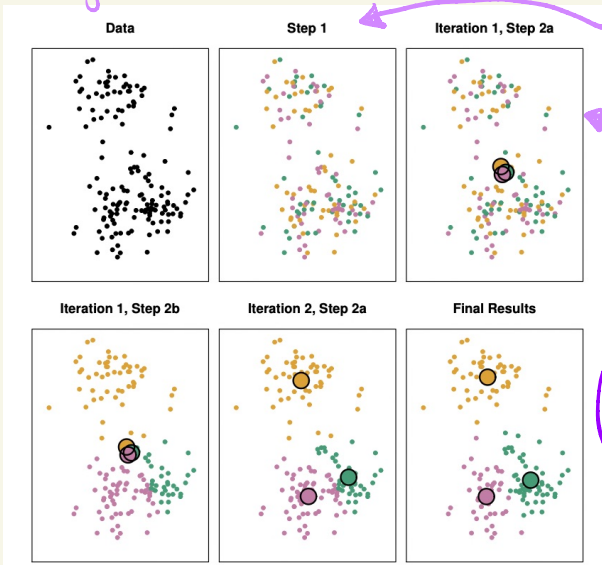
① Big Picture

③ Things that influence your Bias and Variance trade off (Week 1)



We Are Here

② K-means clustering Algorithm



1. Randomly assign each Observation to a cluster (1 to k)
 2. Compute the cluster Centroid
 3. Assign each observation to the cluster whose centroid is the closest. (euclidean distance)
- Repeat until cluster assignments stop changing

Why set a seed?

The original random assignment can impact the final result

