K-means clustering (un-supervised learning) - computer k aluster from desta

- k is pre-defined by # of elusters

the user / me!

1 Change 3 points to

be contriods of cluster

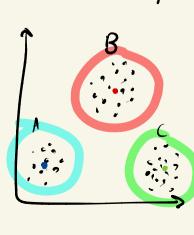
(2) Calculate distance between points and centriod expectation and assign points to closest centriod expectation step

3) Compute new centried point and recalculate thus centriods drift into clusters and achieves

lowest distance between all the points, thus finds cluster

Expectation - Maximization

9



Principal Component Anaylsis - dimensionality reduction - component (direction in space with largest variance) - the larger the varience, the further spread the points will likely be > gand side effect: is also smallest residuals O minimizes projection residuels 2) maximising variance between points house built closer together square footage