.
$$1 - \frac{||v_i - v_j||^2}{26^2} = \frac{1}{2} \frac{||v_i - v_j||^2}{2}$$
 =) consider an innecse in 6 to be a charp of scale in the probabilities, the meighbour graph plots should be identical but with a dular shedy of gray when $6 = 5$

=) high similarity should nealt in dealer groups =) we should see 3 blocks in the neighbour graph plots

3) only two of team have dealer blocks along the disposed (5) & f))

3) since 6=5 should be delen => / b) - 6=5

f) -0 6=2

- if KCD, we usually have less degrees of predom to captural of the relevant features in the injurt data.

 So when applying this bottlenack in the meanshuction actionals, the most prominent features are learned and the next one disconded. Since we have some amount of imformation, altough we are able to reconstruct most of the information, the data which was disconded and the reconstructed, therefore we in our some reconstruction loss in our model.
 - if there exists connected data in our input we can model the full imprometion even with the bottle neck layor.

 Consider two perts of the imput x, and x2 where we have x2 = xx1 with some arbitrary x \in la : the oute encoder, also with less meaning will be able to reconstruct the original imprometion since two data points can be unconstructed with a leanest feature and deflut weights.

So, as long as the murbon of consilated dato points 2 D-16 the autoencoder should be able to have zero loss

formally: $f(x) = X W_1 W_2$ and $X \in Ik^9$, $W_1 \in In^{0 \times 1L}$, $W_2 \in Ik^{0 \times 10}$ so as long as X can be fully represented in Ik^{0} with and ounless between points

the automicodes will have and loss.