R=1 -+ k=2 label label -Majority whe

k=3 label -> + Hajority vote

you could also rultiply takels with. 1/d2 -> higher distance -> less influence

k too snall -> sensitive to noise too large -> meighborhood contains points from other clames

-> Find optimum by teying different ks

Scale data because algorithm is sensitive to distance -> prevents features from dominating!

Curese of Dirensionality

Lo IN High Dim -> All points are far from each other

- SKNN WII NOT WORK!

Solution > Din Reduction PCA SVD

VINTUITION

ASSURE 10 pies of CATS & Dogs (color mages)

10 danifice. 0x0x000xxxxx width is 5 units 2 pics per unit - > dennity = 2 4 1 featre -> not possible to find linear danifie

that separates cats from dogs!