





Claussian Model. · n is Small, m is layerepresso al sum cecitant a kernel. Kneans two this In insuberised learning you are given intabeled > taining set (x,x, -- x) x' & R" (ni below to R" dimensional weter) we have the girle and dataset we divide find centroid for every set also mean for every then in a se' store certaid which

supervised 47 say oren Ur is cluster comboid. -> linear & rogistic regarsion having optimization trong algoria 1 st the value K Fr (i=1 +0 m) Hangey Inden (from 1 to K) of chestor is reason Central closest to x to contoid average of Points assigned to For (K=1 +0K) wail be judister 15 01 mean of chuster 1 of H1. for doing Kneans optimization: Centroid clever 87 81; clusta Randon initialisation Since in starting we only know no. of chuster (i.e k) so, 1st pick K sardom elevert and initialize it as comboid of K cluster. I we small K (no of duster) nearly less the 10 then Jardom instrabilitation 50-1000 time can give better soin anoging No of cluster . (value of K) aparto method: lost Not always sure it rot year no of duster a porbler Charles for Heip

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