es grand in a (19) g EXP. NO & VIMPLEMENTATION OF CLUSTERING TECHNIQUES K-MOANS DATE Alm :-To emploment a K-Means clustering rechargue cusing python language. PSEUDOCODE: 1) import kneans Imm skelpan dusker 2) Assign x and . 3) Call teuton kmean () 4) Peufore scatter operation & display the output.

whose parasas Conferences.

CODE: import humpy as up uniport epopular as pol unipolt mathot lit pyplot asplt ymm skleaen datasets umpoet make blobs from skleaen duster umport k thear X, y = & make_blobs [n_samples = 300, center= 4, cluber = 0.60, landom_state=0) #plot plt-figure (figsign = (8,6)) plt. seatter (XE, 0], XE, 1], O=30, cmap="viridis") plt-atitle ('Data Points') plt-show() # Elbow method por i in range(1,11): Rmeans = KMeans (n. clusters = i, init= k-means++) max-iter= 800 n_init=10, random_state=0) kimeaus. jit (X) wec-appeard (kmeans. unertia-) plt-jigune (jigstigi = 18,6)) pet. pert hange (1,11), wess, marker = 0, livertyle=1-1 pet tile (1816au method') plt. Klabel ("Number of clusters") plr. ylabel ('well within cluster sum of square)') plt show ().

POTENT.

RESULT: The uprogram is succentrally executed halp is rought

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