Ex notiny

Implementation of clustering techniques k means

Cade

Impost by thon necessary libraries

XIY = make _ blobs [n_samples = 300, contents

cluster_std = 0.60, round om_state=0)

pit. scatter (x [:,0], x[:,1])

bit . title ('Dutaser')

\$1+ . x label (feature!)

pt. ylabel (feature 2)

pH, show()

Usess - []

for i in source (1,11):

K means = K means [n-clusters = i, ivit=

'k - meary naax_iter = 300, N_init = 10,

rondomstate = 0)

Kneans-fit (x)

wers append (k means inertias)

pH. pSot [zrange [1,11) uses)

pH. title ['Slbow Method')

pH. xlobel ['Nomber of clusters)

pH. ylabel ['user')

pH. show[)

K means = K means (n-clusters = 4, init = 'k mouns+1')

mox_iter = 300, N_ibsit = 10, random_state=0)

prod-y= kmeans. fit = prodict (x)

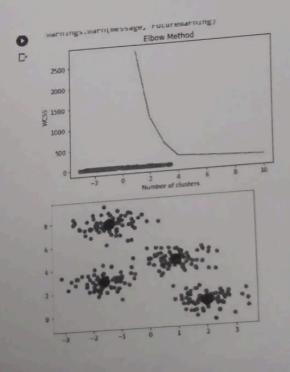
plt. xlabel ('Feature 1')

ptt. ylabel ('Feature 2')

plt. show()

DIP

OUTPUT:



Pands
Thus the 04 is successfully occurbe 2