Technology For You

Thursday, February 14, 2013

K-Means Clustering Advantages and Disadvantages

K-Means Advantages :

1) If variables are huge, then K-Means most of the times computationally faster than hierarchical clustering, if we keep k smalls.

2) K-Means produce tighter clusters than hierarchical clustering, especially if the clusters are globular.

K-Means Disadvantages :

1) Difficult to predict K-Value.
2) With global cluster, it didn't work well.
3) Different initial partitions can result in different final clusters.
4) It does not work well with clusters (in the original data) of Different size and Different density

Posted by **tarun gulyani** at **2:26 AM**

6 COMMENTS:

Deepika Murugan June 28, 2013 at 9:48 PM

thanks

Reply

mounika pothuraju January 30, 2014 at 10:06 PM

To overcome this k-means disadvantages which algorithm we have to use

Reply

Replies

Nikhil Nayanar June 3, 2014 at 5:28 AM

to overcome this either your problem should have some initial boundary constraints on the k values..or u cud optimization algorithms to minimise the cross-validation error..

Reply

AbhiShek June 11, 2014 at 6:27 AM

You can use the new direction in clustering i.e. DBSCAN and OPTICS

Reply

Nilesh Gaikwad April 5, 2016 at 12:39 AM

if k values are same in k means then why it is work? and how to pretend this problem

Reply

Nilesh Gaikwad April 5, 2016 at 12:40 AM

thats means k1=2,k2=5,k3=2.....

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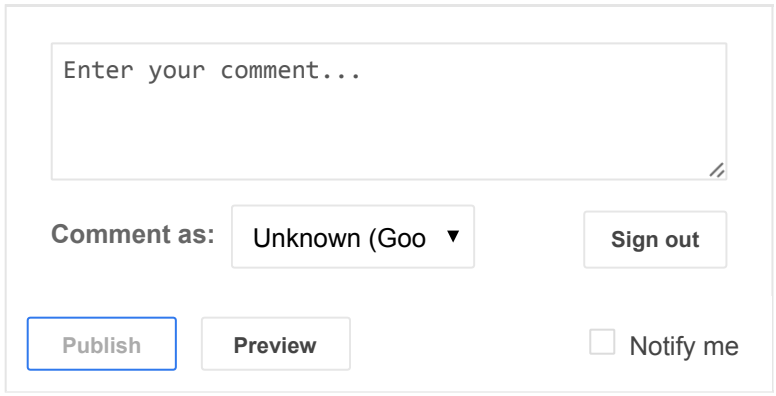

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