Package 'kmscv'

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Title K-Means Based Stratified Resampling Version 0.1.0 Description An 'rsample' extension to create cluster based stratified resamples for cross-validation. License GPL (>= 3) Encoding UTF-8 Imports parsnip,rsample,tibble,purr,dplyr RoxygenNote 7.2.0 BugReports https://github.com/sametsoekel/kmscv/issues NeedsCompilation no Author Samet Sokel [aut, cre] (<https://orcid.org/0000-0002-4429-5125>) Maintainer Samet Sokel <a_s@eskisehir.edu.tr> Repository CRAN Date/Publication 2022-06-28 16:20:08 UTC

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kms_cv

K-Means Based Cross-Validation

Description

K-Means based cross-validation splits data into clusters and creates random splits the data into K groups of roughly equal proportions (called "folds") as the main data.

Usage

```
kms_cv(data, k = 5, centers = NULL, max_center = 20, alpha = 0.1, seed = NULL)
```

Arguments

data	A data frame or data structure that can be converted to a data frame.						
k	The number of partitions of the data set.						
centers	Number of clusters to be created. If NULL, centers are selected automatically based on scaled inertia.						
max_center	If centers is NULL number of clusters to be tried.						
alpha	Alpha coefficient to penalize inertias.						
seed	Seed number to reproduce randomness.						

Value

A tibble with classes manual_rset, rset, tbl_df, tbl, and data.frame. The results include a column for the data split objects and one or more identification variables. There is a column called id that has a character string with the fold identifier.

Examples

library(kmscv)

kms_cv(iris,k = 5,centers = NULL,max_center = 20,alpha = .1,seed = 1)

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