IRLS

Go Up

Table of Contents

GetModel

Go Up

IMPORTS

ML_Core | ML_Core.Types | LogisticRegression | LogisticRegression.Constants | LogisticRegression.Types | LogisticRegression.IRLS |

DESCRIPTIONS

FUNCTION GetModel

DATASET(Layout_Model)	**GetModel**
(DATASET(NumericField) independents, DATASET(DiscreteField) dependents, UNSIGNED max_iter=200, REAL8 epsilon=Constants.default_epsilon, REAL8 ridge=Constants.default_ridge)	

Generate logistic regression model from training data. The size of the inputs is used to determin which work items are processed with purely local operations (the data is moved once as necessary) or with global operations supporting a work item to use multiple nodes.

PARAMETER **independents** the independent values

PARAMETER **dependents** the dependent values.

PARAMETER **max_iter** maximum number of iterations to try

PARAMETER **epsilon** the minimum change in the Beta value estimate to continue

PARAMETER **ridge** a value to pupulate a diagonal matrix that is added to a matrix help assure that the matrix is invertible.

RETURN coefficient matrix plus model building stats

GetModel_global

Go Up

IMPORTS

ML_Core | ML_Core.Types | PBblas | PBblas.Types | LogisticRegression | LogisticRegression.Constants | LogisticRegression.Types |

DESCRIPTIONS

FUNCTION GetModel_global

DATASET(Layout_Model)	GetModel_global
(DATASET(NumericField) independents, DATASET(DiscreteField) dependents, UNSIGNED max_iter=200, REAL8 epsilon=Constants.default_epsilon, REAL8 ridge=Constants.default_ridge)	

Internal function to determine values for the model coefficients and selected statistics from building the model.

PARAMETER **independents** the independent values

PARAMETER **dependents** the dependent values

PARAMETER **max_iter** maximum number of iterations to try

PARAMETER **epsilon** the minimum change in the Beta value estimate to continue

PARAMETER **ridge** a value to pupulate a diagonal matrix that is added to a matrix help assure that the matrix is invertible.

RETURN coefficient matrix plus model building statistics

GetModel_local

Go Up

IMPORTS

ML_Core | ML_Core.Types | LogisticRegression | LogisticRegression.Constants | LogisticRegression.Types | LogisticRegression.IRLS | std | std.blas |

DESCRIPTIONS

FUNCTION GetModel_local

DATASET(Layout_Model)	GetModel_local
(DATASET(NumericField) independents, DATASET(DiscreteField) dependents, UNSIGNED2 max_iter=200, REAL8 epsilon=Constants.default_epsilon, REAL8 ridge=Constants.default_ridge)	

Internal function to determine values for the model co-efficients and selected stats from building the model.

PARAMETER **independents** the independent values

PARAMETER **dependents** the dependent values.

PARAMETER **max_iter** maximum number of iterations to try

PARAMETER **epsilon** the minimum change in the Beta value estimate to continue

PARAMETER **ridge** a value to populate a diagonal matrix that is added to a matrix help assure that the matrix is invertible.

RETURN coefficient matrix plus model building stats
