JavaScript is disabled on your browser.

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* [Prev Class](http://docs.google.com/org/opencv/ml/KNearest.html)
* [Next Class](http://docs.google.com/org/opencv/ml/Ml.html)
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org.opencv.ml

## Class LogisticRegression

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - [org.opencv.ml.StatModel](http://docs.google.com/org/opencv/ml/StatModel.html)
      * org.opencv.ml.LogisticRegression
* public class LogisticRegression  
  extends [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html)  
  Implements Logistic Regression classifier. SEE: REF: ml\_intro\_lr

### Field SummaryFields

| Modifier and Type | Field and Description |
| --- | --- |
| static int | [**BATCH**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#BATCH) |
| static int | [**MINI\_BATCH**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#MINI_BATCH) |
| static int | [**REG\_DISABLE**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#REG_DISABLE) |
| static int | [**REG\_L1**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#REG_L1) |
| static int | [**REG\_L2**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#REG_L2) |

### Fields inherited from class org.opencv.ml.[**StatModel**](http://docs.google.com/org/opencv/ml/StatModel.html)[COMPRESSED\_INPUT](http://docs.google.com/org/opencv/ml/StatModel.html#COMPRESSED_INPUT), [PREPROCESSED\_INPUT](http://docs.google.com/org/opencv/ml/StatModel.html#PREPROCESSED_INPUT), [RAW\_OUTPUT](http://docs.google.com/org/opencv/ml/StatModel.html#RAW_OUTPUT), [UPDATE\_MODEL](http://docs.google.com/org/opencv/ml/StatModel.html#UPDATE_MODEL)

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#__fromPtr__(long))(long addr) |
| static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) | [**create**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#create())() Creates empty model. |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**get\_learnt\_thetas**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#get_learnt_thetas())() This function returns the trained parameters arranged across rows. |
| int | [**getIterations**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#getIterations())() SEE: setIterations |
| double | [**getLearningRate**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#getLearningRate())() SEE: setLearningRate |
| int | [**getMiniBatchSize**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#getMiniBatchSize())() SEE: setMiniBatchSize |
| int | [**getRegularization**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#getRegularization())() SEE: setRegularization |
| [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) | [**getTermCriteria**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#getTermCriteria())() SEE: setTermCriteria |
| int | [**getTrainMethod**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#getTrainMethod())() SEE: setTrainMethod |
| static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) | [**load**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#load(java.lang.String))(java.lang.String filepath) Loads and creates a serialized LogisticRegression from a file Use LogisticRegression::save to serialize and store an LogisticRegression to disk. |
| static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) | [**load**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#load(java.lang.String,%20java.lang.String))(java.lang.String filepath, java.lang.String nodeName) Loads and creates a serialized LogisticRegression from a file Use LogisticRegression::save to serialize and store an LogisticRegression to disk. |
| float | [**predict**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#predict(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) samples) Predicts responses for input samples and returns a float type. |
| float | [**predict**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) samples, [Mat](http://docs.google.com/org/opencv/core/Mat.html) results) Predicts responses for input samples and returns a float type. |
| float | [**predict**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat,%20int))([Mat](http://docs.google.com/org/opencv/core/Mat.html) samples, [Mat](http://docs.google.com/org/opencv/core/Mat.html) results, int flags) Predicts responses for input samples and returns a float type. |
| void | [**setIterations**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#setIterations(int))(int val) getIterations SEE: getIterations |
| void | [**setLearningRate**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#setLearningRate(double))(double val) getLearningRate SEE: getLearningRate |
| void | [**setMiniBatchSize**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#setMiniBatchSize(int))(int val) getMiniBatchSize SEE: getMiniBatchSize |
| void | [**setRegularization**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#setRegularization(int))(int val) getRegularization SEE: getRegularization |
| void | [**setTermCriteria**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#setTermCriteria(org.opencv.core.TermCriteria))([TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) val) getTermCriteria SEE: getTermCriteria |
| void | [**setTrainMethod**](http://docs.google.com/org/opencv/ml/LogisticRegression.html#setTrainMethod(int))(int val) getTrainMethod SEE: getTrainMethod |

### Methods inherited from class org.opencv.ml.[**StatModel**](http://docs.google.com/org/opencv/ml/StatModel.html)[calcError](http://docs.google.com/org/opencv/ml/StatModel.html#calcError(org.opencv.ml.TrainData,%20boolean,%20org.opencv.core.Mat)), [empty](http://docs.google.com/org/opencv/ml/StatModel.html#empty()), [getVarCount](http://docs.google.com/org/opencv/ml/StatModel.html#getVarCount()), [isClassifier](http://docs.google.com/org/opencv/ml/StatModel.html#isClassifier()), [isTrained](http://docs.google.com/org/opencv/ml/StatModel.html#isTrained()), [train](http://docs.google.com/org/opencv/ml/StatModel.html#train(org.opencv.core.Mat,%20int,%20org.opencv.core.Mat)), [train](http://docs.google.com/org/opencv/ml/StatModel.html#train(org.opencv.ml.TrainData)), [train](http://docs.google.com/org/opencv/ml/StatModel.html#train(org.opencv.ml.TrainData,%20int))

### Methods inherited from class org.opencv.core.[**Algorithm**](http://docs.google.com/org/opencv/core/Algorithm.html)[clear](http://docs.google.com/org/opencv/core/Algorithm.html#clear()), [getDefaultName](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()), [getNativeObjAddr](http://docs.google.com/org/opencv/core/Algorithm.html#getNativeObjAddr()), [save](http://docs.google.com/org/opencv/core/Algorithm.html#save(java.lang.String))

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Field Detail

#### BATCH public static final int BATCHSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.LogisticRegression.BATCH)

#### MINI\_BATCH public static final int MINI\_BATCHSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.LogisticRegression.MINI_BATCH)

#### REG\_DISABLE public static final int REG\_DISABLESee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.LogisticRegression.REG_DISABLE)

#### REG\_L1 public static final int REG\_L1See Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.LogisticRegression.REG_L1)

#### REG\_L2 public static final int REG\_L2See Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.LogisticRegression.REG_L2)

### Method Detail

#### \_\_fromPtr\_\_ public static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) \_\_fromPtr\_\_(long addr)

#### create public static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) create() Creates empty model. Creates Logistic Regression model with parameters given.Returns:automatically generated

#### get\_learnt\_thetas public [Mat](http://docs.google.com/org/opencv/core/Mat.html) get\_learnt\_thetas() This function returns the trained parameters arranged across rows. For a two class classification problem, it returns a row matrix. It returns learnt parameters of the Logistic Regression as a matrix of type CV\_32F.Returns:automatically generated

#### getIterations public int getIterations() SEE: setIterationsReturns:automatically generated

#### getLearningRate public double getLearningRate() SEE: setLearningRateReturns:automatically generated

#### getMiniBatchSize public int getMiniBatchSize() SEE: setMiniBatchSizeReturns:automatically generated

#### getRegularization public int getRegularization() SEE: setRegularizationReturns:automatically generated

#### getTermCriteria public [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) getTermCriteria() SEE: setTermCriteriaReturns:automatically generated

#### getTrainMethod public int getTrainMethod() SEE: setTrainMethodReturns:automatically generated

#### load public static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) load(java.lang.String filepath) Loads and creates a serialized LogisticRegression from a file Use LogisticRegression::save to serialize and store an LogisticRegression to disk. Load the LogisticRegression from this file again, by calling this function with the path to the file. Optionally specify the node for the file containing the classifierParameters:filepath - path to serialized LogisticRegression Returns:automatically generated

#### load public static [LogisticRegression](http://docs.google.com/org/opencv/ml/LogisticRegression.html) load(java.lang.String filepath, java.lang.String nodeName) Loads and creates a serialized LogisticRegression from a file Use LogisticRegression::save to serialize and store an LogisticRegression to disk. Load the LogisticRegression from this file again, by calling this function with the path to the file. Optionally specify the node for the file containing the classifierParameters:filepath - path to serialized LogisticRegressionnodeName - name of node containing the classifier Returns:automatically generated

#### predict public float predict([Mat](http://docs.google.com/org/opencv/core/Mat.html) samples) Predicts responses for input samples and returns a float type.**Overrides:** [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat)) in class [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html) Parameters:samples - The input data for the prediction algorithm. Matrix [m x n], where each row contains variables (features) of one object being classified. Should have data type CV\_32F. Returns:automatically generated

#### predict public float predict([Mat](http://docs.google.com/org/opencv/core/Mat.html) samples, [Mat](http://docs.google.com/org/opencv/core/Mat.html) results) Predicts responses for input samples and returns a float type.**Overrides:** [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat)) in class [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html) Parameters:samples - The input data for the prediction algorithm. Matrix [m x n], where each row contains variables (features) of one object being classified. Should have data type CV\_32F.results - Predicted labels as a column matrix of type CV\_32S. Returns:automatically generated

#### predict public float predict([Mat](http://docs.google.com/org/opencv/core/Mat.html) samples, [Mat](http://docs.google.com/org/opencv/core/Mat.html) results, int flags) Predicts responses for input samples and returns a float type.**Overrides:** [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat,%20int)) in class [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html) Parameters:samples - The input data for the prediction algorithm. Matrix [m x n], where each row contains variables (features) of one object being classified. Should have data type CV\_32F.results - Predicted labels as a column matrix of type CV\_32S.flags - Not used. Returns:automatically generated

#### setIterations public void setIterations(int val) getIterations SEE: getIterationsParameters:val - automatically generated

#### setLearningRate public void setLearningRate(double val) getLearningRate SEE: getLearningRateParameters:val - automatically generated

#### setMiniBatchSize public void setMiniBatchSize(int val) getMiniBatchSize SEE: getMiniBatchSizeParameters:val - automatically generated

#### setRegularization public void setRegularization(int val) getRegularization SEE: getRegularizationParameters:val - automatically generated

#### setTermCriteria public void setTermCriteria([TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) val) getTermCriteria SEE: getTermCriteriaParameters:val - automatically generated

#### setTrainMethod public void setTrainMethod(int val) getTrainMethod SEE: getTrainMethodParameters:val - automatically generated

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