JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Tree](http://docs.google.com/package-tree.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/opencv/ml/Ml.html)
* [Next Class](http://docs.google.com/org/opencv/ml/ParamGrid.html)
* [Frames](http://docs.google.com/index.html?org/opencv/ml/NormalBayesClassifier.html)
* [No Frames](http://docs.google.com/NormalBayesClassifier.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#2et92p0) |
* Constr |
* [Method](#tyjcwt)
* Detail:
* Field |
* Constr |
* [Method](#2s8eyo1)

org.opencv.ml

## Class NormalBayesClassifier

* 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.NormalBayesClassifier
* public class NormalBayesClassifier  
  extends [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html)  
  Bayes classifier for normally distributed data. SEE: REF: ml\_intro\_bayes

### Field Summary

### 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 [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html#__fromPtr__(long))(long addr) |
| static [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) | [**create**](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html#create())() Creates empty model Use StatModel::train to train the model after creation. |
| static [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) | [**load**](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html#load(java.lang.String))(java.lang.String filepath) Loads and creates a serialized NormalBayesClassifier from a file Use NormalBayesClassifier::save to serialize and store an NormalBayesClassifier to disk. |
| static [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) | [**load**](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html#load(java.lang.String,%20java.lang.String))(java.lang.String filepath, java.lang.String nodeName) Loads and creates a serialized NormalBayesClassifier from a file Use NormalBayesClassifier::save to serialize and store an NormalBayesClassifier to disk. |
| float | [**predictProb**](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html#predictProb(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) inputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputProbs) Predicts the response for sample(s). |
| float | [**predictProb**](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html#predictProb(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat,%20int))([Mat](http://docs.google.com/org/opencv/core/Mat.html) inputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputProbs, int flags) Predicts the response for sample(s). |

### 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()), [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat)), [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat)), [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat,%20int)), [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

### Method Detail

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

#### create public static [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) create() Creates empty model Use StatModel::train to train the model after creation.Returns:automatically generated

#### load public static [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) load(java.lang.String filepath) Loads and creates a serialized NormalBayesClassifier from a file Use NormalBayesClassifier::save to serialize and store an NormalBayesClassifier to disk. Load the NormalBayesClassifier 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 NormalBayesClassifier Returns:automatically generated

#### load public static [NormalBayesClassifier](http://docs.google.com/org/opencv/ml/NormalBayesClassifier.html) load(java.lang.String filepath, java.lang.String nodeName) Loads and creates a serialized NormalBayesClassifier from a file Use NormalBayesClassifier::save to serialize and store an NormalBayesClassifier to disk. Load the NormalBayesClassifier 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 NormalBayesClassifiernodeName - name of node containing the classifier Returns:automatically generated

#### predictProb public float predictProb([Mat](http://docs.google.com/org/opencv/core/Mat.html) inputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputProbs) Predicts the response for sample(s). The method estimates the most probable classes for input vectors. Input vectors (one or more) are stored as rows of the matrix inputs. In case of multiple input vectors, there should be one output vector outputs. The predicted class for a single input vector is returned by the method. The vector outputProbs contains the output probabilities corresponding to each element of result.Parameters:inputs - automatically generatedoutputs - automatically generatedoutputProbs - automatically generated Returns:automatically generated

#### predictProb public float predictProb([Mat](http://docs.google.com/org/opencv/core/Mat.html) inputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputs, [Mat](http://docs.google.com/org/opencv/core/Mat.html) outputProbs, int flags) Predicts the response for sample(s). The method estimates the most probable classes for input vectors. Input vectors (one or more) are stored as rows of the matrix inputs. In case of multiple input vectors, there should be one output vector outputs. The predicted class for a single input vector is returned by the method. The vector outputProbs contains the output probabilities corresponding to each element of result.Parameters:inputs - automatically generatedoutputs - automatically generatedoutputProbs - automatically generatedflags - automatically generated Returns:automatically generated

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