Image Recognition with IBM Cloud Visual Recognition

Phase-4

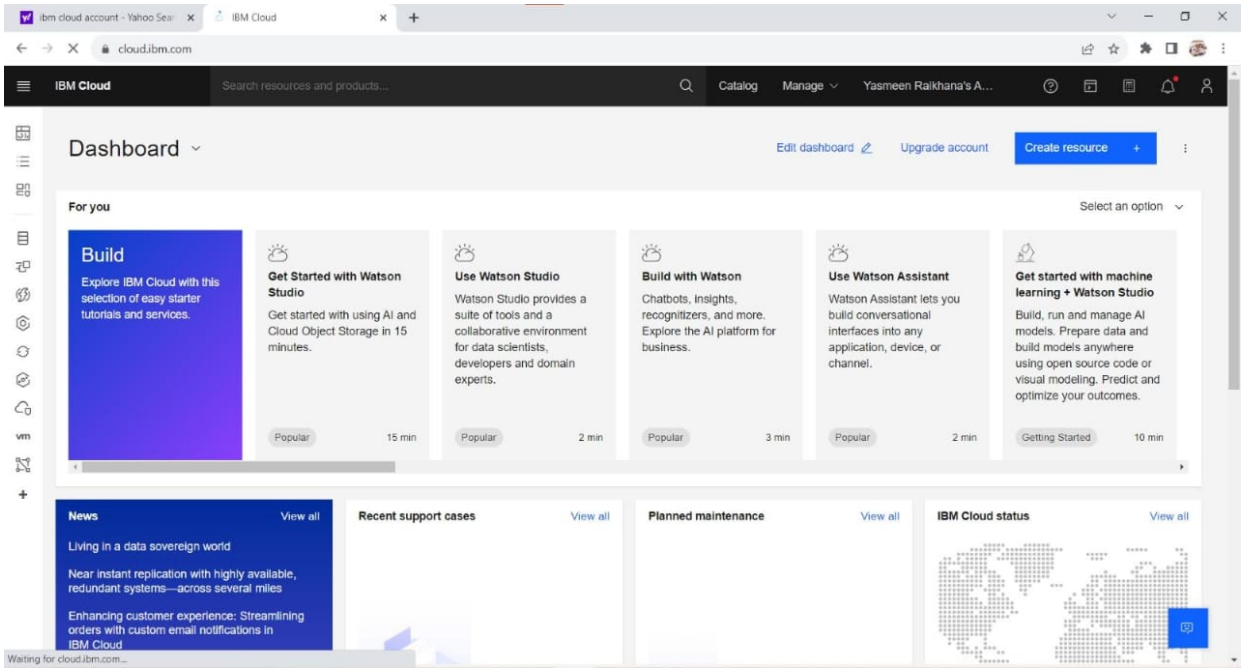
INTRODUCTION:

Continuing the journey to enhance the image recognition system, explore how to integrate IBM Cloud Visual Recognition with AI-generated captions. This phase will delve into the implementation of the image classification process through the powerful IBM Cloud Visual Recognition API. Furthermore,it will introduce the concept of natural language generation to automatically create descriptive captions for the images that the system recognizes. This integration of advanced technologies promises to take the image recognition system to a new level, enabling it to not only identify images but also communicate their content in human-readable language. Let's dive into the details of this exciting development!

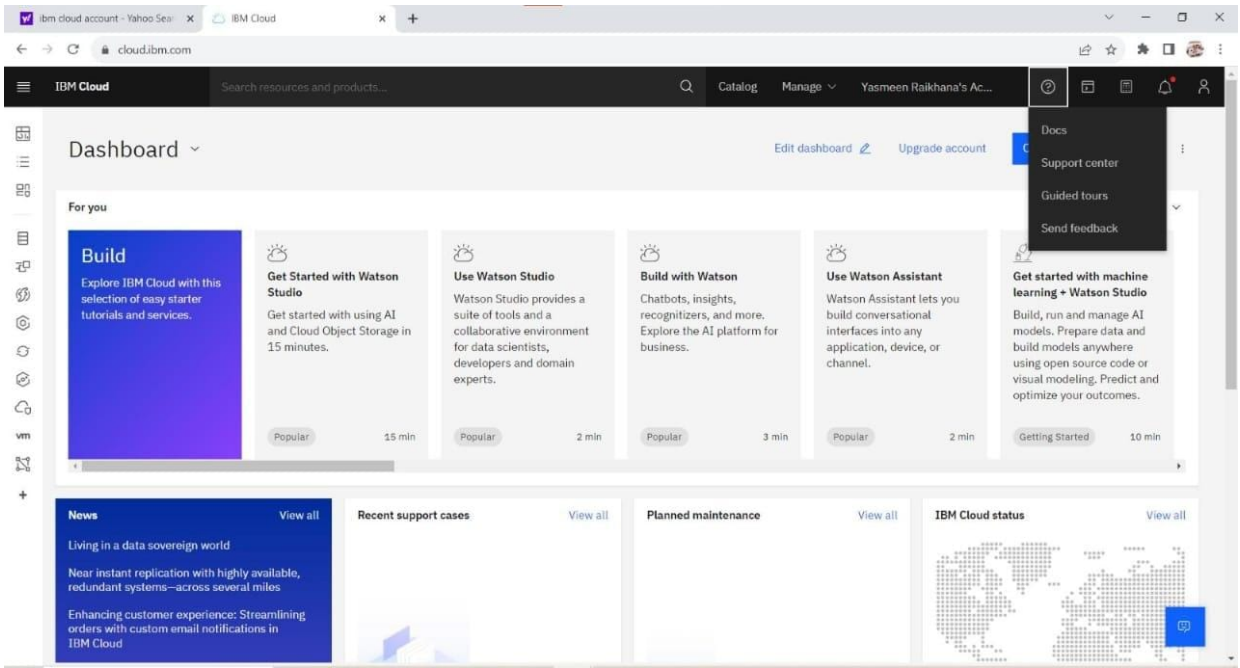
PROCEDURE:

Login to the IBM account with IBMid.Then enter your password.

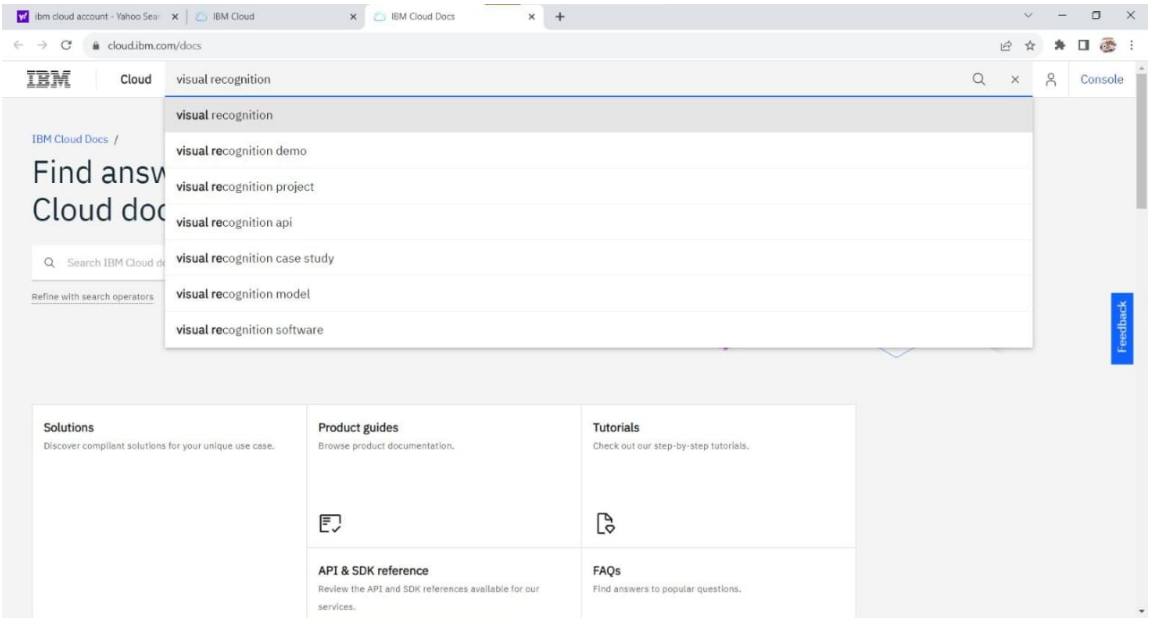
The home page of the IBM account will be:



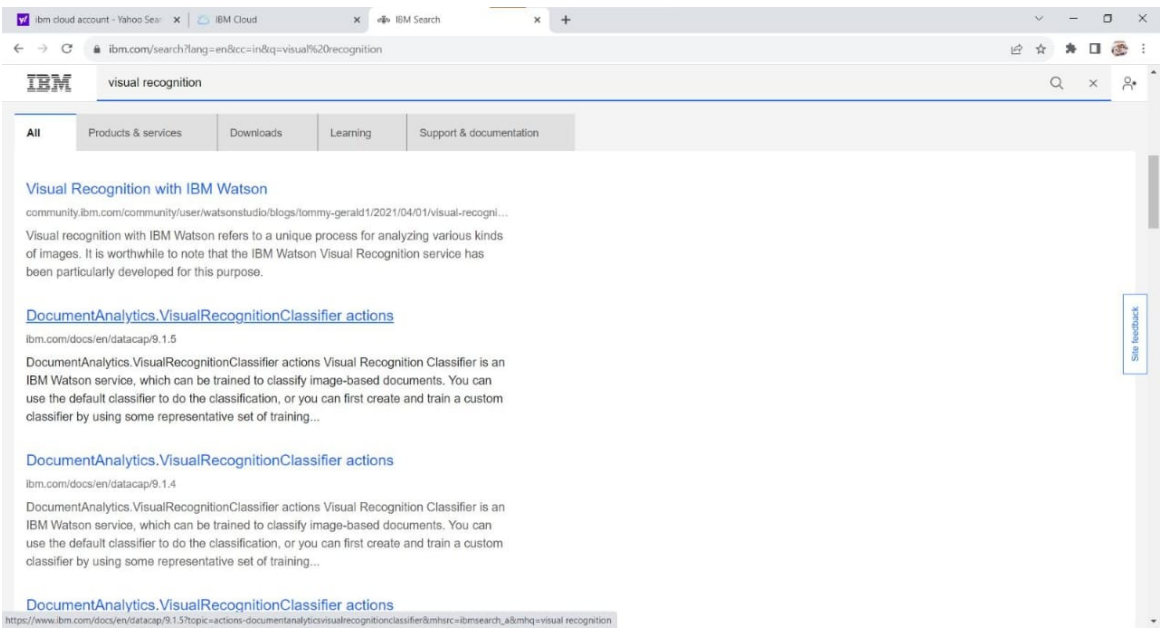
Now,Click on the help icon and then click on Docs in the drop-down menu



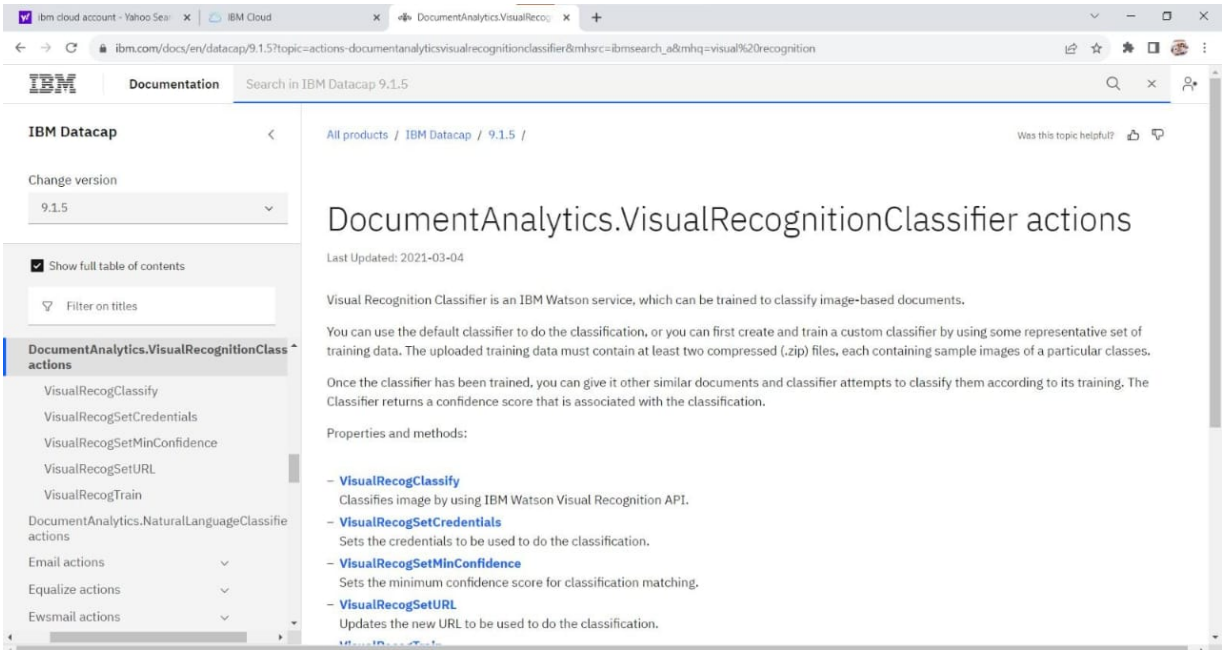
Then click the search icon.Search for Visual Recognition in the search bar.

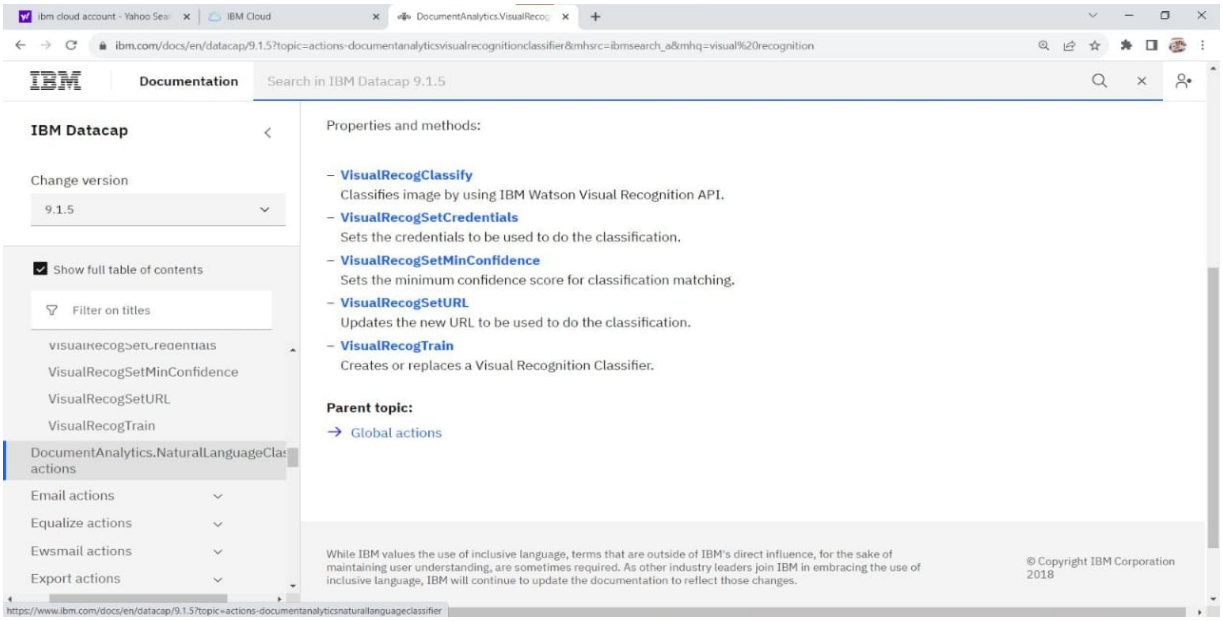


Then open the DocumentAnalytics.VisualRecognitionClassifier actions.



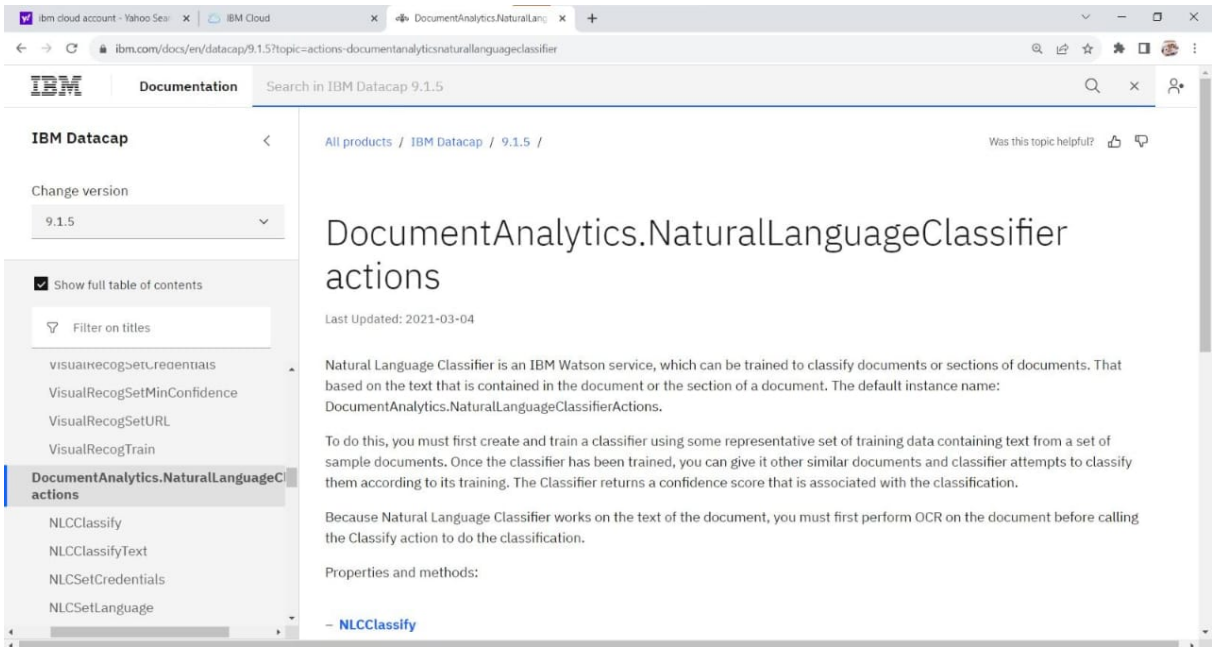
DocumentAnalytics.VisualRecognitionClassifier actions page will be like this.

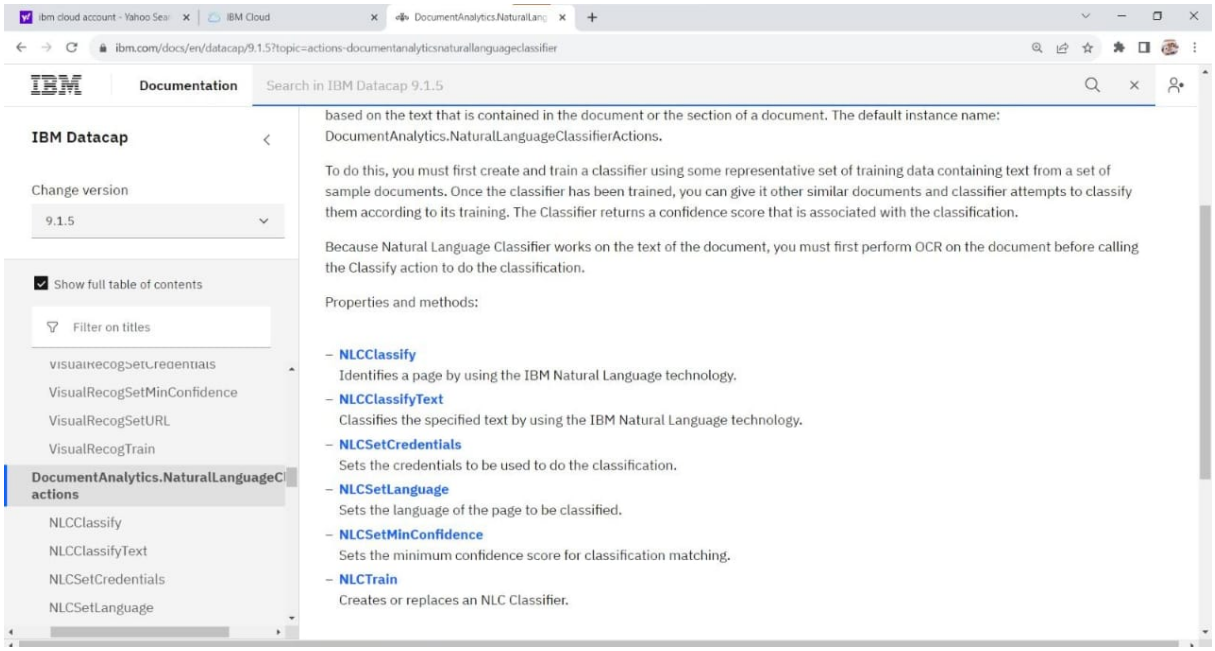




Then open DocumentAnalytics.NaturalLanguageClassifier actions,

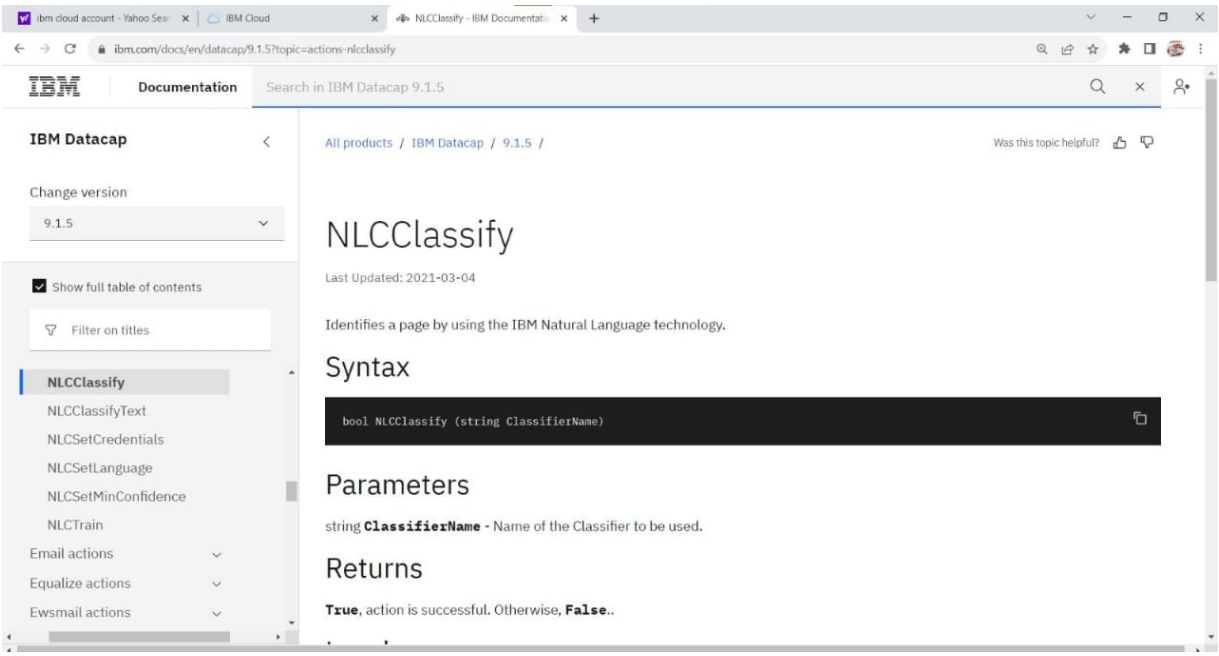
the page will be

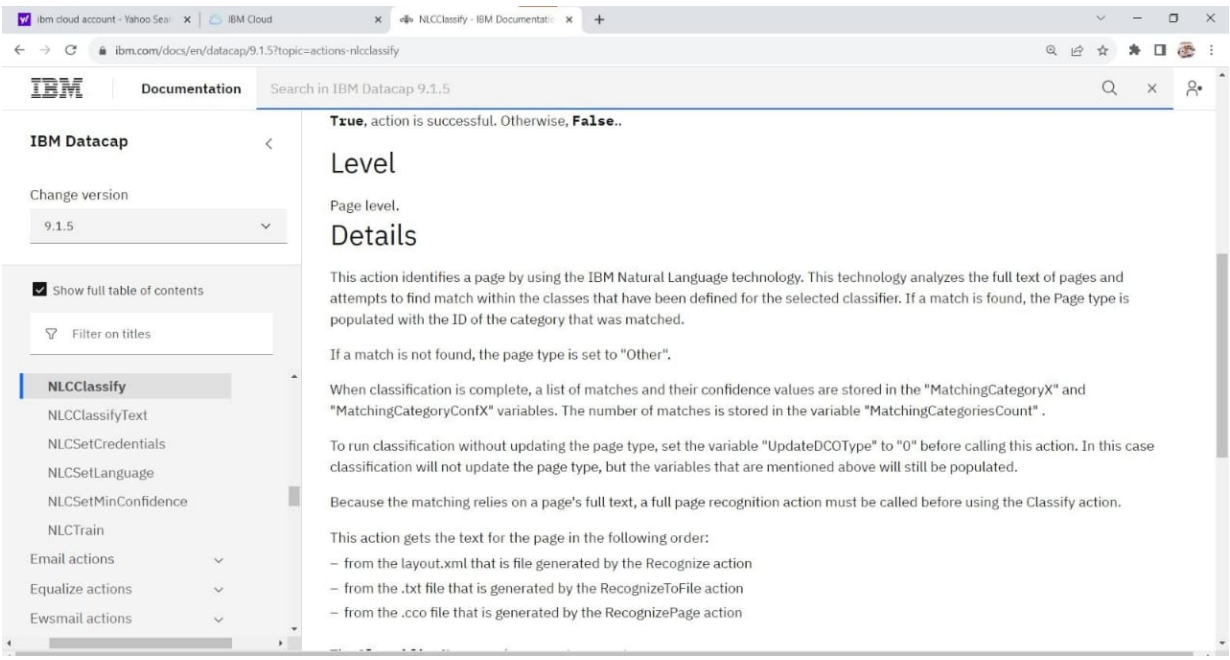


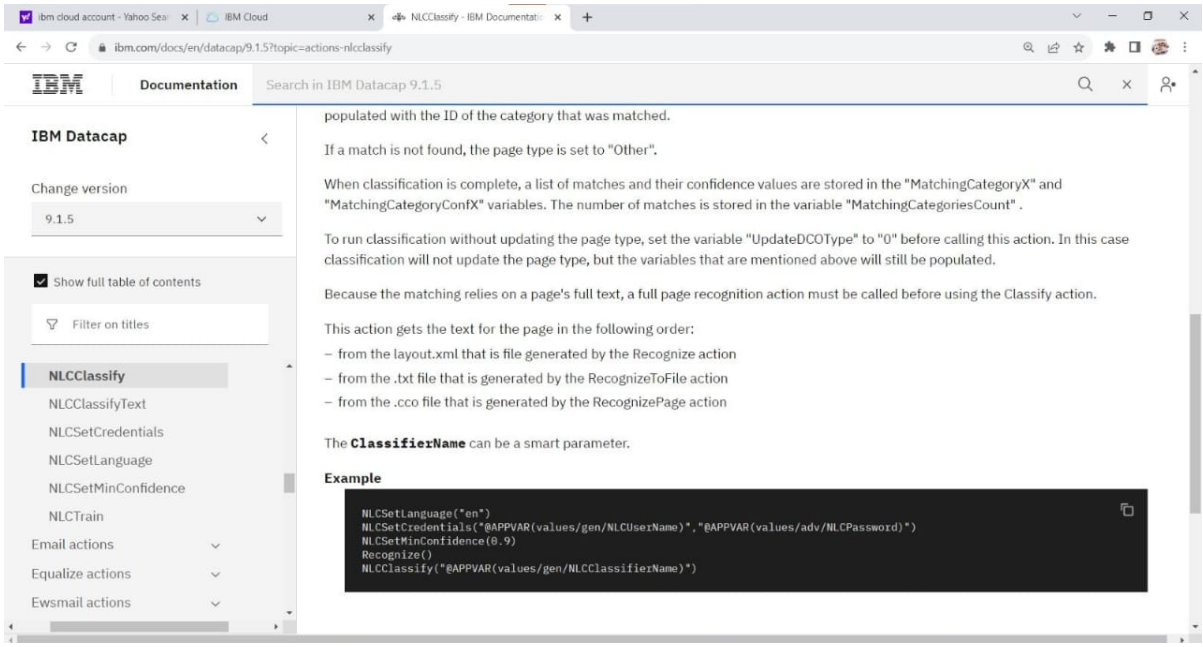


NLCClassify

It Identifies a page by using the IBM Natural Language technology.

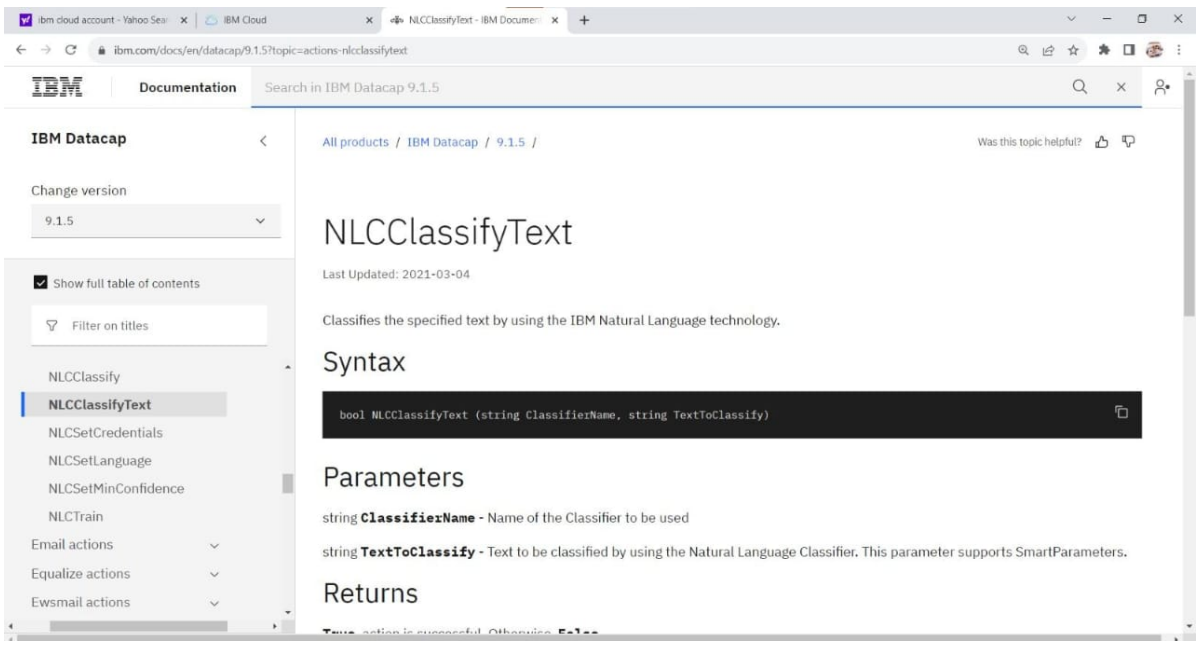


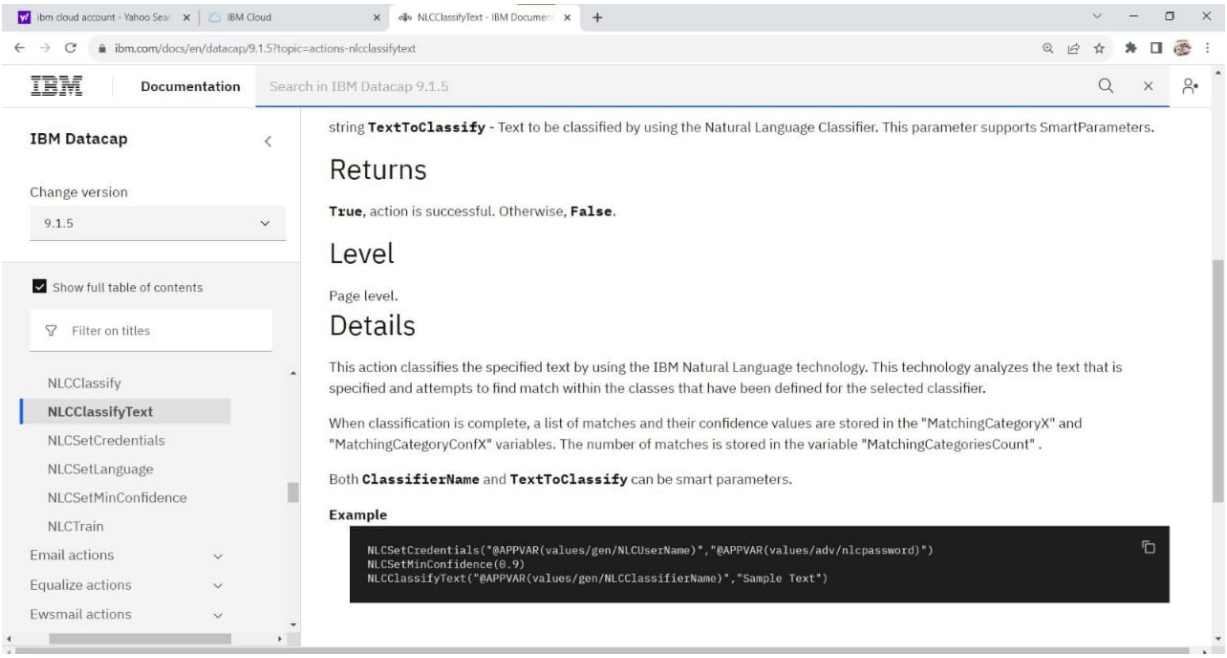




NLCClassifyText

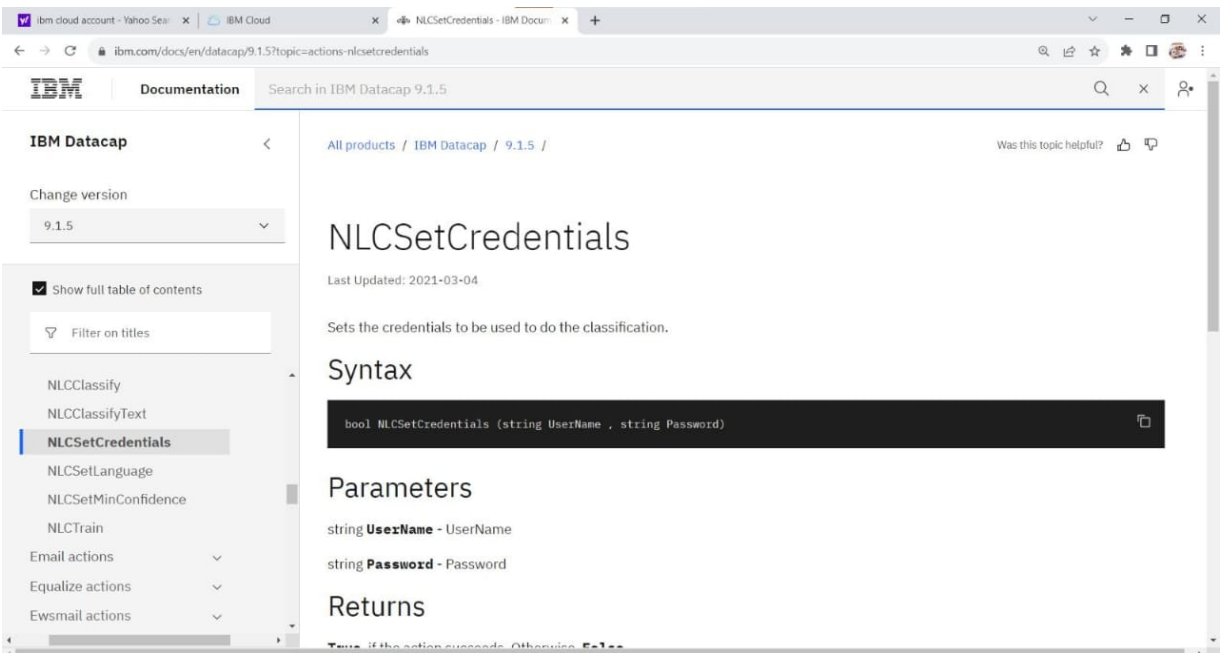
Classifies the specified text by using the IBM Natural Language technology.

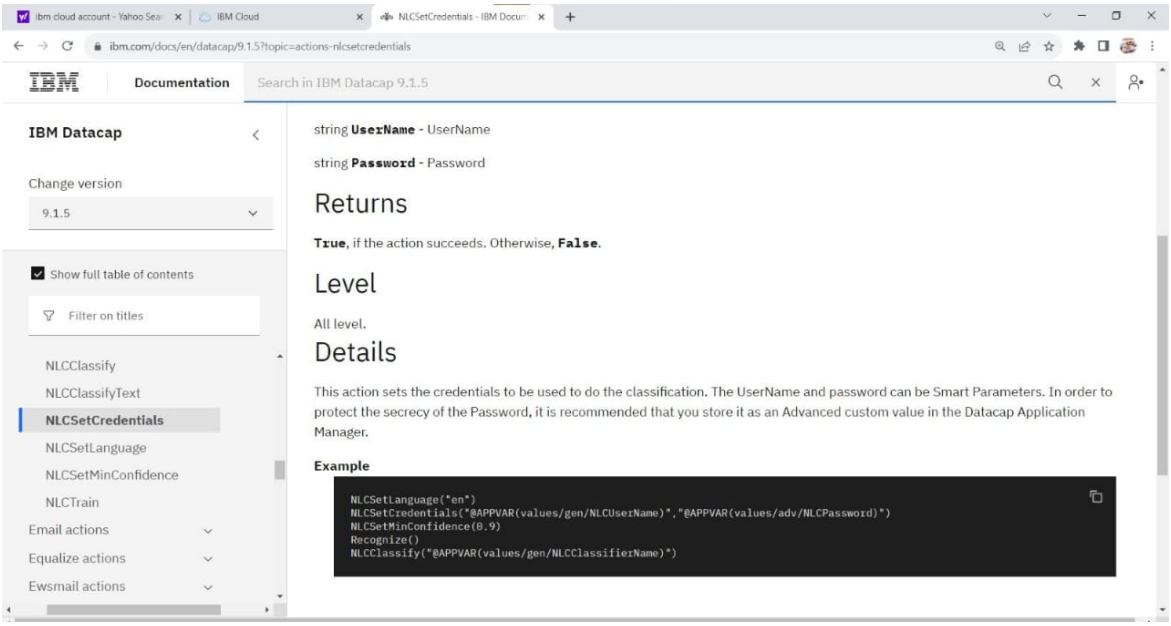




NLCSetCredentials

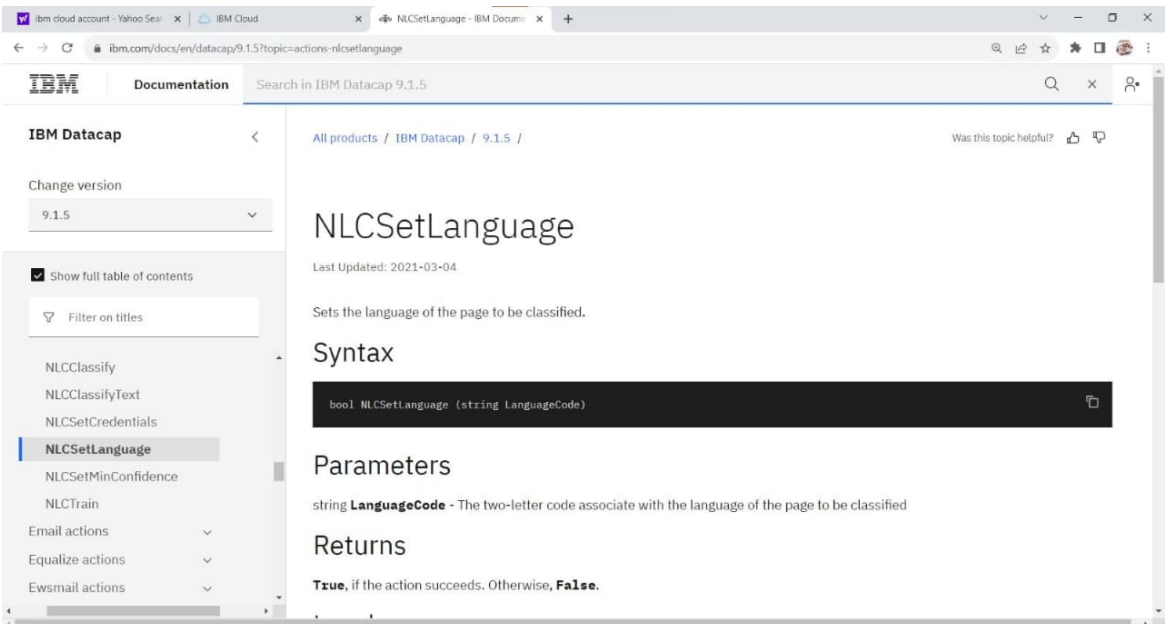
Sets the credentials to be used to do the classification.

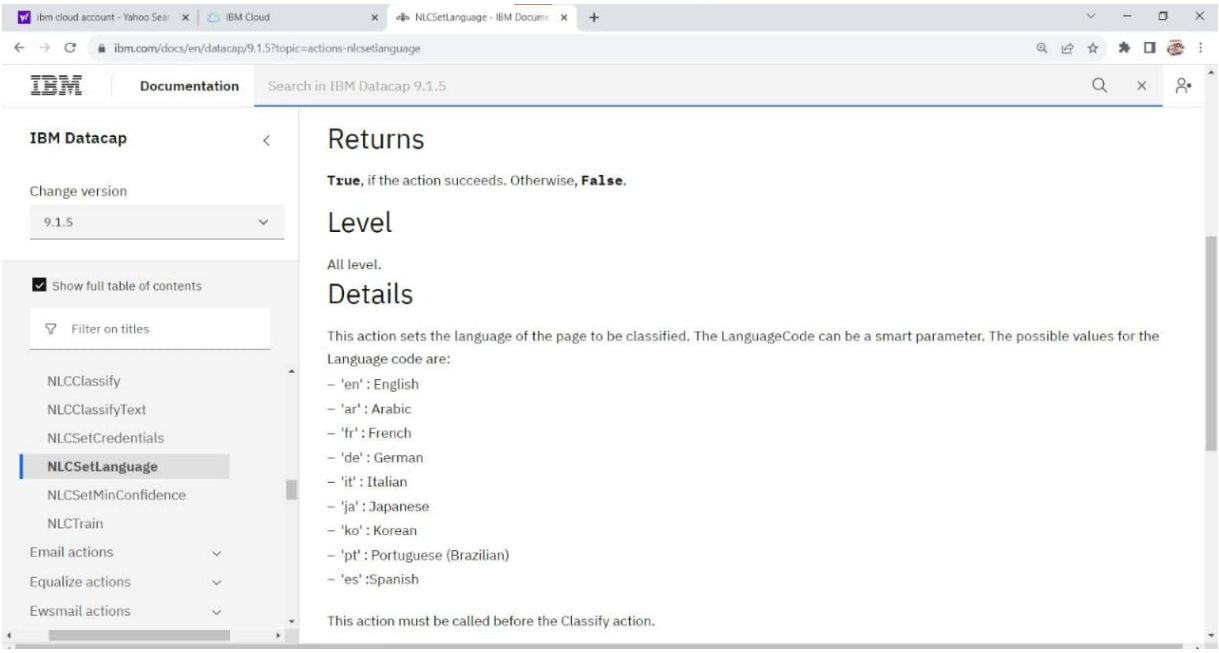


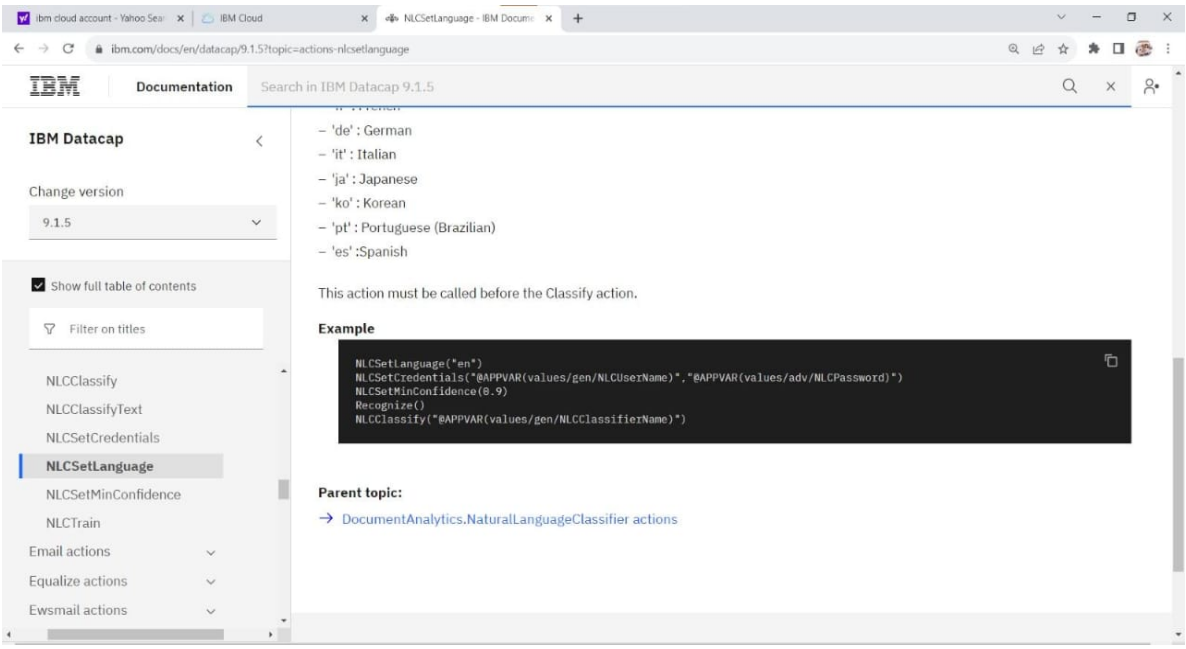


NLCSetLanguage

Sets the language of the page to be classified.

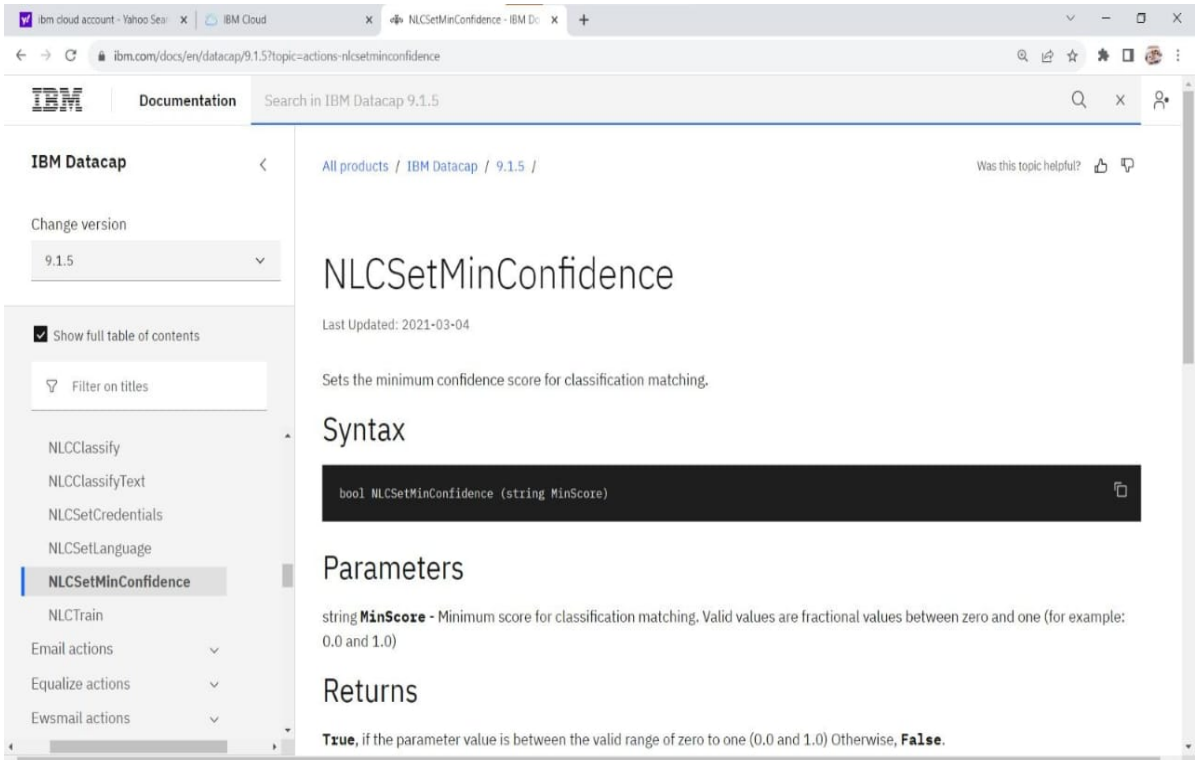


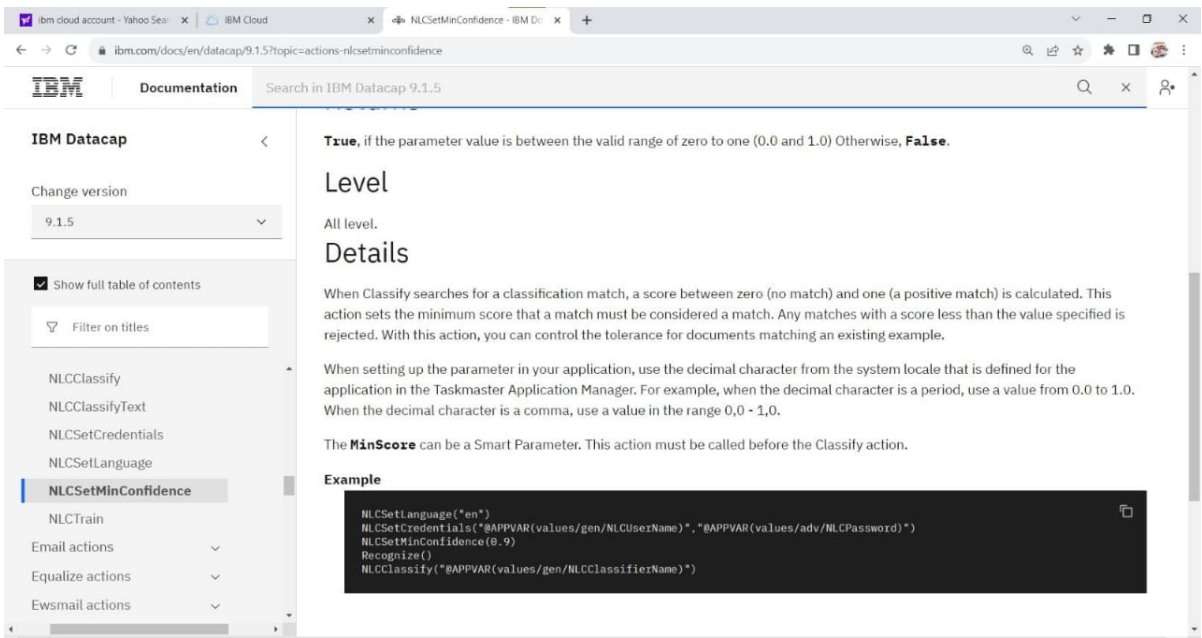




NLCSetMinConfidence

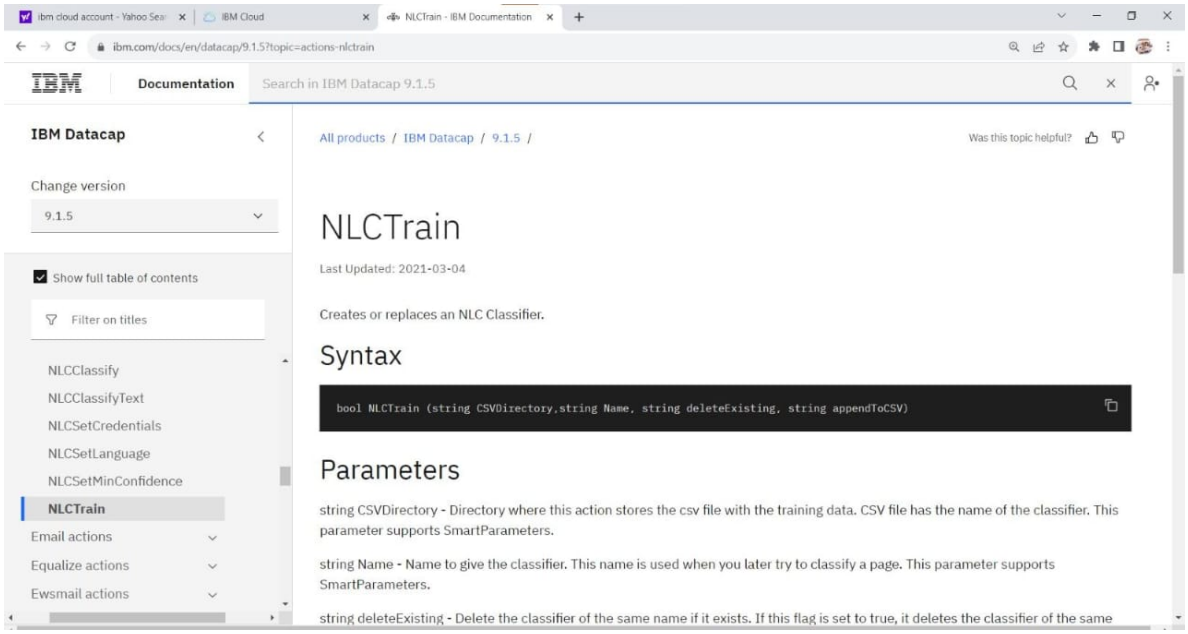
Sets the minimum confidence score for classification matching.

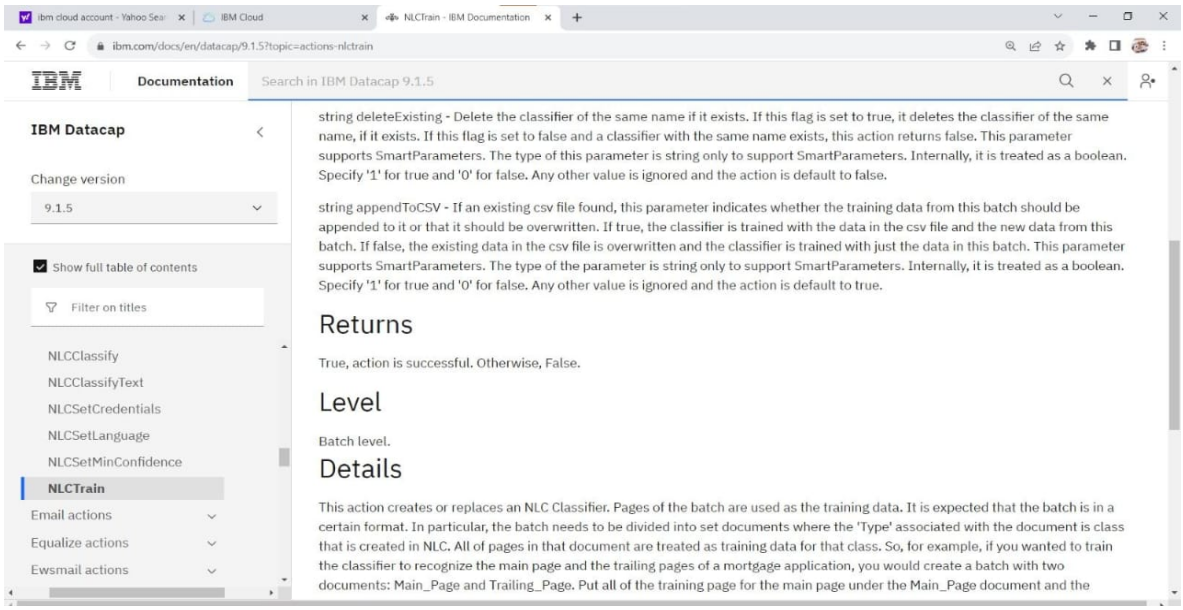

ibm cloud account - Yahoo Sea
IBM Cloud
NLCSetMinConfidence - IBM Do
ibm.com/docs/en/datacap/9.1.5?topic=actions-nlcsetminconfidence
IBM
Documentation
Search in IBM Datacap 9.1.5
IBM Datacap
Change version
9.1.5
Show full table of contents
Filter on titles
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain
Email actions
Equalize actions
Ewsmail actions
All products / IBM Datacap / 9.1.5 /
Was this topic helpful?
NLCSetMinConfidence
Last Updated: 2021-03-04
Sets the minimum confidence score for classification matching.
Syntax
bool NLCSetMinConfidence (string MinScore)
Parameters
string MinScore - Minimum score for classification matching. Valid values are fractional values between zero and one (for example: 0.0 and 1.0)
Returns
True, if the parameter value is between the valid range of zero to one (0.0 and 1.0) Otherwise, False.

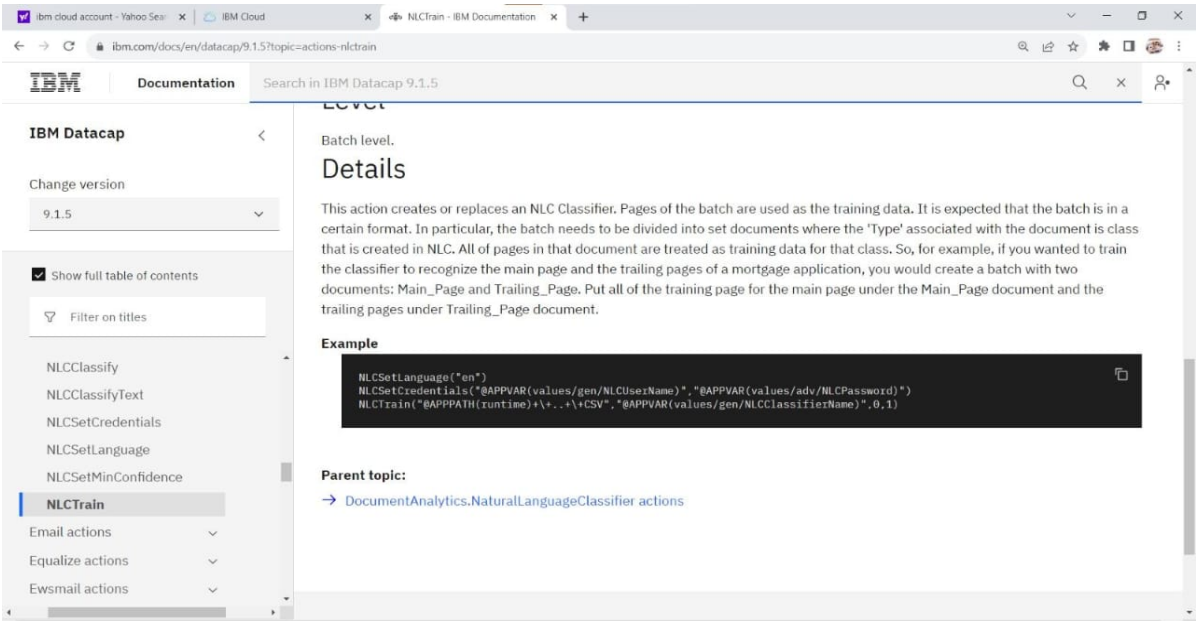

ibm cloud account - Yahoo Sea
IBM Cloud
NLCSetMinConfidence - IBM Do
ibm.com/docs/en/datacap/9.1.5?topic=actions-nlcsetminconfidence
IBM
Documentation
Search in IBM Datacap 9.1.5
IBM Datacap
Change version
9.1.5
Show full table of contents
Filter on titles
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain
Email actions
Equalize actions
Ewsmail actions
True, if the parameter value is between the valid range of zero to one (0.0 and 1.0) Otherwise, False.
Level
All level.
Details
When Classify searches for a classification match, a score between zero (no match) and one (a positive match) is calculated. This action sets the minimum score that a match must be considered a match. Any matches with a score less than the value specified is rejected. With this action, you can control the tolerance for documents matching an existing example.
When setting up the parameter in your application, use the decimal character from the system locale that is defined for the application in the Taskmaster Application Manager. For example, when the decimal character is a period, use a value from 0.0 to 1.0. When the decimal character is a comma, use a value in the range 0,0 - 1,0.
The MinScore can be a Smart Parameter. This action must be called before the Classify action.
Example
NLCSetLanguage("en")
NLCSetCredentials("@APPVAR(values/gen/NLCUserName)","@APPVAR(values/adv/NLCPassword)")
NLCSetMinConfidence(0.9)
Recognize()
NLCClassify("@APPVAR(values/gen/NLCClassifierName)")

NLCTrain

Creates or replaces an NLC Classifier.







CONCLUSION:

In conclusion, the integration of IBM Cloud Visual Recognition and AI-generated captions represents a significant step in advancing the capabilities of the image recognition system.Implementation of the image classification process with the IBM Cloud Visual Recognition API, have harnessed the power of cutting-edge computer vision technology. Additionally, incorporating natural language generation to create captions for recognized images has made the system more informative and user-friendly. This seamless blend of visual and textual information enhances the overall user experience and opens doors to various applications in fields like content management, accessibility, and more.