AI Label Image Plugin

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Description

Introduction to AI

Artificial intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems. AI is a hot topic in technology today, with rapid advancements and increasing adoption in many areas e.g. smartphones, smart homes and self-driving cars among others. AI and automation in business have tremendous potential and will change the future of the workforce.

Introduction to TensorFlow

TensorFlow is an open-source AI library for machine learning. Built by Google, TensorFlow is designed for implementing, training, testing and deploying deep learning neural networks.

Neural networks are used in a variety of applications, notably in classification problems such as speech and image recognition. The TensorFlow site provides a number of tutorials to get started.

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The TensorFlow project provides a sample model and Java code for labelling images.

This process tool plugin uses that sample pre-trained neural network to determine a label and probability for a file upload field.

Plugin Info

Plugin Type: Process Tool Plugin

Joget Version: DX 8

Joget Edition: Community and Enterprise

Installation

1. Download the plugin JAR file:
   ai-label-image-5.0.0.jar
2. Upload the downloaded jar file through Manage Plugins.
3. Map and configure the plugin to any Process Tool & Post Form Submission Processing Plugin.
4. A sample app is available for download here:
   APP_ai_label_image-1-20170530110042.jwa
5. The source code for the plugin is available at https://github.com/jogetoss/ai-image-label

Screenshots

1. Configuration

Label Image Tool

⧉ SOURCE FILE UPLOAD IMAGE

Form   ⊕

| Image Upload Form   ✕ ⌄ |

File Upload Field

| image |

⧉ STORE LABEL IMAGE RESULT IN FORM

Store Label into Form Field

| label |

Store Probability into Form Field

| probability |

⧉ STORE LABEL IMAGE RESULT IN WORKFLOW VARIABLE

Store Result into Workflow Variable

| label |

Store Probability into Workflow Variable

| probability |

2. Sample app

AI LION IMAGE RECOGNITION USING TENSORFLOW   🏠 📧² 👤 Admin Admin ▾

Welcome   Upload Image   Images ⌄

🏠 Home > / Upload Image

LABEL IMAGE FLOW - LION ACTIVITY

Image Upload

Code   ID-000034

Image (JPEG only)

AI Classification

Label   lion

Probability   96.182724

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Plugin Properties

Source File Upload Image

Label	Description
Form	The form containing the file upload field
File Upload Field	The file upload field for the image to be recognized

Store Label Image Result in Form

Label	Description
Store Label into Form Field	The form field to store the label result of the processed image
Store Probability into Form Field	The form field to store the probability result of the processed image

Store Label Image Result in Workflow Variable

Label	Description
Store Result into Workflow Variable	The workflow variable to store the label result of the processed image
Store Probability into Workflow Variable	The workflow variable to store the probability result of the processed image

Changelog

Version	Items
5.0.0	- Initial release