Package: kuzco (via r-universe)

December 28, 2024

Title LLM image classification using ollama in R
Version 0.0.1.0
Description This package is a designed to use local models for image classification. The prompts and functions are designed to take an input image and supply classification information as an output.
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Encoding UTF-8
Roxygen list(markdown = TRUE)
RoxygenNote 7.3.2
Imports dplyr, jsonlite, ollamar
Config/pak/sysreqs libssl-dev
Repository https://frankiethull.r-universe.dev
RemoteUrl https://github.com/frankiethull/kuzco
RemoteRef HEAD
RemoteSha b99cf421d4bbed1f9064d6c66c80dc5622b73fe2
Contents
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```
llm_image_classification
```

Image Classification using LLMs

Description

Image Classification using LLMs

Usage

```
llm_image_classification(
    llm_model = "llava-phi3",
    image = "inst/img/test_img.jpg",
    ...
)
```

Arguments

```
    11m_model a local LLM model pulled from ollama
    image a local image path that has a jpeg, jpg, or png
    a pass through for other generate args and model args like temperature
```

Value

a df with image_classification, primary_object, secondary_object, image_description, image_colors, image_proba_names, image_proba_values

```
llm_image_extract_text
```

Image OCR for Text Extraction using LLMs

Description

Image OCR for Text Extraction using LLMs

Usage

```
llm_image_extract_text(
    llm_model = "llava-phi3",
    image = "inst/img/text_img.jpg",
    ...
)
```

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Arguments

image

```
11m_model a local LLM model pulled from ollama
```

... a pass through for other generate args and model args like temperature. set the

temperature to 0 for more deterministic output

a local image path that has a jpeg, jpg, or png

Value

a df with text

11m_image_recognition Image Recognition using LLMs

Description

Image Recognition using LLMs

Usage

```
llm_image_recognition(
    llm_model = "llava-phi3",
    image = "inst/img/test_img.jpg",
    recognize_object = "face",
    ...
)
```

Arguments

Value

```
a df with object_recognized, object_count, object_description, object_location
```

temperature to 0 for more deterministic output

4 llm_image_sentiment

Description

Image Sentiment using LLMs

Usage

```
llm_image_sentiment(
    llm_model = "llava-phi3",
    image = "inst/img/test_img.jpg",
    ...
)
```

Arguments

11m_model a local LLM model pulled from ollama
 image a local image path that has a jpeg, jpg, or png
 ... a pass through for other generate args and model args like temperature. set the temperature to 0 for more deterministic output

Value

a df with image_sentiment, image_score, sentiment_description, image_keywords

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