
konan-sdk

Synapse Analytics

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INTRODUCTION

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konan-sdk is a Python library for interacting with the APIs of [Konan](#), the one-stop leading platform for Machine Learning and Data Science powered deployments. It is a fully supported package by the Konan team and offers seamless integration with the platform at large, allowing you to focus on what matters: *creating* and *consuming* your innovative AI models.

Check out the [Usage](#) section for further information, including the [Installation](#) steps of the project.

Note: This project is under active development.

CONTENTS

1.1 Usage

1.1.1 Installation

To use konan-sdk, first install it using pip:

```
(.venv) $ pip install konan-sdk
```

1.1.2 Making a prediction

To make a prediction, you can use the `konan_sdk.sdk.KonanSDK.predict()` method:

For example:

```
from konan_sdk.sdk import KonanSDK

sdk = KonanSDK(verbose=False) # Initialize the SDK.

user = sdk.login(api_key="<api-key>") # Login user your valid konan API Key
# user = sdk.login(email="<email>", password="<password>") # Login user your valid Konan
↳ credentials

input_data = {"feature_1": 1, "feature_2": "abc", } # Define the input data to be passed
↳ to your model

prediction_uuid, ml_output = sdk.predict("<deployment_uuid>", input_data) # Run the
↳ prediction

print(prediction_uuid, ml_output) # Print the returned output
```

1.1.3 Listing Past Predictions

To list past predictions, make use of the `konan_sdk.sdk.KonanSDK.get_predictions()` method, which uses *yield*-based semantics to both allow you to retrieve a large number of predictions while also maintaining low request latency and response size.

```
import datetime
from konan_sdk.sdk import KonanSDK

sdk = KonanSDK(verbose=False) # Initialize the SDK.
user = sdk.login(api_key="<api-key>") # Login user your valid konan API Key
# user = sdk.login(email="<email>", password="<password>") # Login user your valid Konan_
# credentials

predictions_generator = sdk.get_predictions(
    deployment_uuid="<deployment-uuid>",
    start_time=datetime.datetime(year=2022, month=9, day=1),
    end_time=datetime.datetime(year=2022, month=10, day=1),
)

for predictions in predictions_generator:
    # predictions is a list of KonanPrediction objects
    print(len(predictions))
    # Inspect the first KonanPrediction in the list
    print(predictions[0].uuid, predictions[0].features)
    print(predictions[0].output, predictions[0].feedback)
```

1.1.4 Konan Model Creation

You can also use **konan-sdk** to kickstart your AI model into production! The `konan_sdk.konan_service` subpackage provides all what you will need to transform your model's logic into a Konan-compatible Model.

Check out the [Konan Template Deployments repo](#) and [Konan Docs](#) for more information on how to extend the `konan_sdk.konan_service.*` classes to prepare your Konan-compatible Model.

1.2 Konan Service Serializers

```
class konan_sdk.konan_service.serializers.KonanServiceBasePredictionRequest
```

Bases: BaseModel

Predict Request serializer for input format validation.

```
class konan_sdk.konan_service.serializers.KonanServiceBasePredictionResponse
```

Bases: BaseModel

Predict Response serializer for output format validation.

```
class konan_sdk.konan_service.serializers.KonanServiceBaseFeedback(*, prediction: KonanService-
                                                                    BasePredictionResponse,
                                                                    target: Any = None)
```

Bases: BaseModel

Evaluation model for input format validation.

```

prediction: KonanServiceBasePredictionResponse
    Past prediction output

target: Any
    Target value provided by the /feedback Konan API

class konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateRequest(*, data:
    List[KonanServiceBaseFeedback])

    Bases: BaseModel

    Evaluate Request serializer for input format validation.

    data: List[KonanServiceBaseFeedback]
        List of past predictions along side their feedbacks

class konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName(value)

    Bases: str, Enum

    Enum for Konan's predefined metrics.

    multi_label_confusion_matrix = 'multi_label_confusion_matrix'
        Multi label confusion matrix

    confusion_matrix = 'confusion_matrix'
        Confusion Matrix

    precision = 'precision'
        Precision

    recall = 'recall'
        Recall

    f1_score = 'f1_score'
        F1 Score

    rmse = 'rmse'
        RMSE

    mae = 'mae'
        MAE

class konan_sdk.konan_service.serializers.KonanServiceEvaluation(*, metric_name:
    Union[KonanServicePredefinedMetricName, str], metric_value: Any =
    None)

    Bases: BaseModel

    A Konan Model's evaluation

    metric_name: Union[KonanServicePredefinedMetricName, str]
        Name of the metric

    metric_value: Any
        Value of the metric

class konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateResponse(*, results:
    List[KonanServiceEvaluation])

    Bases: BaseModel

    Evaluate Response serializer for output format validation.

```

results: `List[KonanServiceEvaluation]`

List of evaluations returned by the model

1.3 Konan Service Model

class `konan_sdk.konan_service.models.KonanServiceBaseModel`

Bases: `ABC`

abstract `predict`(*req*: `KonanServiceBasePredictionRequest`) → `KonanServiceBasePredictionResponse`

Predicts using the `preprocessed_input`

Parameters

req (`KonanServiceBasePredictionRequest`) – raw request data from API

Returns

This will be the response returned by the API.

Return type

`KonanServiceBasePredictionResponse`

abstract `evaluate`(*req*: `KonanServiceBaseEvaluateRequest`) → `KonanServiceBaseEvaluateResponse`

Evaluates the model using past predictions and their feedback

Parameters

req (`KonanServiceBaseEvaluateRequest`) – raw request data from API

Returns

This will be the response returned by the API

Return type

`KonanServiceBaseEvaluateResponse`

1.4 Konan Service

```
class konan_sdk.konan_service.services.KonanService(predict_request_class: ~typing.Type,  
                                                    predict_response_class: ~typing.Type,  
                                                    model_class: ~typing.Type,  
                                                    feedback_target_class:  
                                                    ~typing.Optional[~typing.Type] = None,  
                                                    evaluate_response_class: ~typing.Type = <class  
                                                    'konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateResponse',  
                                                    *model_args, **model_kwargs)
```

Bases: `object`

Class that implements a Konan webservice

```
__init__(predict_request_class: ~typing.Type, predict_response_class: ~typing.Type, model_class:  
         ~typing.Type, feedback_target_class: ~typing.Optional[~typing.Type] = None,  
         evaluate_response_class: ~typing.Type = <class  
         'konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateResponse'>, *model_args,  
         **model_kwargs) → None
```

Initializes a konan service

Parameters

- **predict_request_class** (*Type*) – Type of a prediction request. Should be a class that inherits from `KonanServiceBasePredictionRequest`
- **predict_response_class** (*Type*) – Type of a prediction response. Should be a class that inherits from `KonanServiceBasePredictionResponse`
- **model_class** (*Type*) – Type of the model that does the prediction. Should be a class that inherits from `KonanServiceBaseModel`. Must implement the `predict()` and `evaluate()` methods
- **feedback_target_class** (*Type, optional*) – Type of feedback target. Defaults to value of `predict_response_class` if `None`.
- **evaluate_response_class** (*Type, optional*) – Type of an evaluation response. Should be a class that inherits from `KonanServiceBaseEvaluateResponse`, defaults to `KonanServiceBaseEvaluateResponse`

Returns

None

Return type

Type

1.5 KonanSDK

```
class konan_sdk.sdk.KonanSDK(auth_url='https://auth.konan.ai', api_url='https://api.konan.ai',
                             verbose=False)
```

Bases: `object`

konan-sdk's main class for API integration.

```
__init__(auth_url='https://auth.konan.ai', api_url='https://api.konan.ai', verbose=False)
```

```
login(email: Optional[str] = None, password: Optional[str] = None, api_key: Optional[str] = None) →
None
```

Login to Konan with `_either_` email + password credentials `_or_` an API Key.At least one of the two authentication methods *must* be passed. If both methods are passed, API Key authentication is used.**Parameters**

- **email** (*str, optional*) – email of registered user, defaults to `None`
- **password** (*str, optional*) – password of registered user, defaults to `None`
- **api_key** (*str, optional*) – API Key of registered user, defaults to `None`

```
create_deployment(name: str, docker_credentials: Optional[KonanDockerCredentials], docker_image:
KonanDockerImage, model_name: Optional[str] = None) →
KonanDeploymentCreationResponse
```

Call the create deployment function

Parameters

- **name** (*str*) – name of the deployment to create
- **docker_credentials** (*Optional[KonanDockerCredentials]*) – credentials for the docker registry to use

- **docker_image** ([KonanDockerImage](#)) – docker image information
- **model_name** – name of the live model to create, defaults to None

If left as None, will default to the name of the deployment :type model_name: str, optional :return: konan_deployment_creation_response :rtype: KonanDeploymentCreationResponse

create_model(*deployment_uuid: str, name: str, docker_credentials: Optional[KonanDockerCredentials], docker_image: KonanDockerImage, model_state: KonanModelState = KonanModelState.Challenger*) → [KonanModel](#)

Call the create model function

Parameters

- **deployment_uuid** ([str](#)) – uuid of the deployment to create the model in
- **name** ([str](#)) – name of the model to create
- **docker_credentials** (*Optional[KonanDockerCredentials]*) – credentials for the docker registry to use
- **docker_image** ([KonanDockerImage](#)) – docker image information
- **model_state** ([KonanModelState](#), *optional*) – state in which to create the Model, defaults to [KonanModelState.Challenger](#)

Returns

[konan_model](#)

Return type

[KonanModel](#)

get_models(*deployment_uuid: str*) → [List\[KonanModel\]](#)

Call the get models function

Parameters

deployment_uuid ([str](#)) – uuid of the deployment to get its models

Returns

[konan_models](#)

Return type

[List\[KonanModel\]](#)

switch_model_state(*deployment_uuid: str, model_uuid: str, switch_to: KonanModelState, new_live_model_uuid: Optional[str] = None*) → [None](#)

Switch the state of a Konan Model

If model_uuid is the UUID of the current Live model then: - it will be demoted to Challenger, and - the parameter new_live_model_uuid is required

Parameters

- **deployment_uuid** ([str](#)) – UUID of deployment
- **model_uuid** ([str](#)) – UUID of model to switch
- **switch_to** ([KonanModelState](#)) – new state to switch mode to. Must be different from the model's current state
- **new_live_model_uuid** – _description_, defaults to None.

Required only if model_uuid is the UUID of the current Live model :type new_live_model_uuid: str, optional :return: None :rtype: None

predict(*deployment_uuid*: *str*, *input_data*: *Union[Dict, str]*) → *Tuple[str, Dict]*

Call the predict function for a given deployment

Parameters

- **deployment_uuid** (*str*) – uuid of deployment to use for prediction
- **input_data** (*Union[Dict, str]*) – data to pass to the model

Returns

A tuple of prediction uuid and the prediction output

Return type

Tuple[str, Dict]

evaluate(*deployment_uuid*: *str*, *start_time*: *datetime*, *end_time*: *datetime*) → *List[KonanBaseMetric]*

Call the evaluate function for a given deployment

Parameters

- **deployment_uuid** (*str*) – uuid of deployment to use for evaluation
- **start_time** (*datetime.datetime*) – use predictions made at or after this time
- **end_time** (*datetime.datetime*) – use predictions made before or at this time

Returns

A model evaluation object

Return type

EvaluateEndpoint.ResponseObject

feedback(*deployment_uuid*: *str*, *feedbacks*: *List[KonanFeedbackSubmission]*) → *KonanFeedbacksResult*

Call the feedback function for a given deployment

Parameters

- **deployment_uuid** (*str*) – uuid of deployment to use for prediction
- **feedbacks** (*List[KonanFeedbackSubmission]*) – feedback objects to register with the deployment

Returns

feedback result

Return type

KonanFeedbacksResult

delete_model(*model_uuid*: *str*) → *bool*

Call the delete function for a given model WARNING: Using this method with a valid mode_uuid will DELETE it!! :param model_uuid: uuid of model to delete :type model_uuid: str :return: success :rtype: bool

delete_deployment(*deployment_uuid*: *str*) → *bool*

Call the delete function for a given deployment WARNING: Using this method with a valid deployment_uuid will DELETE it!! :param deployment_uuid: uuid of deployment to delete :type deployment_uuid: str :return: success :rtype: bool

1.6 Konan Types

class `konan_sdk.konan_types.KonanCredentials`(*email: str, password: str*)

Bases: `object`

Credentials to use to authenticate with the Konan API.

__init__(*email: str, password: str*) → `None`

Initialize a new `KonanCredentials`.

Parameters

- **email** (*str*) – email address
- **password** (*str*) – password

class `konan_sdk.konan_types.KonanTokens`(*access: str, refresh: str*)

Bases: `object`

API Token retrieved by successfully authenticating with the Konan API.

__init__(*access: str, refresh: str*) → `None`

Initialize a new `KonanTokens`.

Parameters

- **access** (*str*) – Konan access token
- **refresh** (*str*) – Konan refresh token

class `konan_sdk.konan_types.KonanPrediction`(*uuid: str, output: Dict[str, Any], features: Optional[Dict[str, Any]] = None, feedback: Optional[Union[str, Dict[str, Any], Any]] = None*)

Bases: `object`

Successful prediction registered with the Konan API.

__init__(*uuid: str, output: Dict[str, Any], features: Optional[Dict[str, Any]] = None, feedback: Optional[Union[str, Dict[str, Any], Any]] = None*) → `None`

Initialize a new `KonanPrediction`.

Parameters

- **uuid** (*str*) – Prediction uuid
- **output** (*Dict*) – Live model output
- **features** (*Optional[Dict[str, Any]], optional*) – features used to make the Prediction, defaults to `None`
- **feedback** (*Optional[Union[str, Dict[str, Any], Any]], optional*) – Feedback made on the Prediction, defaults to `None`

class `konan_sdk.konan_types.KonanDockerCredentials`(*username: str, password: str*)

Bases: `object`

Credentials to use to authenticate with the Docker ContainerRegistry.

__init__(*username: str, password: str*) → `None`

Initialize a new `KonanDockerCredentials`.

Parameters

- **username** (*str*) – username
- **password** (*str*) – password

class konan_sdk.konan_types.**KonanDockerImage**(*url: str, exposed_port: int*)

Bases: **object**

Docker image to use for Konan Model creation.

__init__(*url: str, exposed_port: int*) → **None**

Initialize a new KonanDockerImage.

Parameters

- **url** (*str*) – URL of the docker image
- **exposed_port** (*int*) – Port number that the docker image exposes its services at

class konan_sdk.konan_types.**KonanModelState**(*value*)

Bases: **Enum**

Different states a KonanModel can be in

Parameters

Enum (*[type]*) – [description]

Live = 'live'

Model Live State

Challenger = 'challenger'

Model Challenger State

Disabled = 'disabled'

Model Disabled State

Other = 'other'

Model Other State

class konan_sdk.konan_types.**KonanModelCreationRequest**(*name: str, docker_credentials: Optional[KonanDockerCredentials], docker_image: KonanDockerImage, state: KonanModelState*)

Bases: **object**

Information required to create a new Konan Model.

__init__(*name: str, docker_credentials: Optional[KonanDockerCredentials], docker_image: KonanDockerImage, state: KonanModelState*) → **None**

Initialize a new KonanModelCreationRequest.

Parameters

- **name** (*str*) – Name of the new Konan Mode.
- **docker_credentials** (*Optional[KonanDockerCredentials]*) – Credentials of the Docker Container Registry to use
- **docker_image** (*KonanDockerImage*) – Docker Image to use as the Konan Model

class konan_sdk.konan_types.**KonanProjectCreationRequest**(*name: str, description: Optional[str]*)

Bases: **object**

Information required to issue a create a new Konan Project.

__init__(*name: str, description: Optional[str]*) → None

Initialize a new KonanProjectCreationRequest.

Parameters

- **name** (*str*) – Name of the new Konan Project.
- **description** (*str*) – Description of the new Konan Project.

class konan_sdk.konan_types.KonanDeploymentCreationRequest(*name: str, description: Optional[str], model_creation_request: KonanModelCreationRequest*)

Bases: *KonanProjectCreationRequest*

Information required to issue a create a new Konan Deployment.

__init__(*name: str, description: Optional[str], model_creation_request: KonanModelCreationRequest*) → None

Initialize a new KonanDeploymentCreationRequest.

Parameters

- **name** (*str*) – Name of the new Konan Project.
- **description** (*str*) – Description of the new Konan Project.
- **model_creation_request** (*KonanModelCreationRequest*) – Information required to create a new Konan Model.

class konan_sdk.konan_types.KonanDeploymentErrorType(*value*)

Bases: *Enum*

Different error types possibly returned by the Konan API when attempting to create a new Konan Deployment.

Parameters

Enum (*[type]*) – [description]

Image = 'image'

Deployment Image Error

HealthEndpoint = 'health_endpoint'

Healthz Error

ExposedPort = 'exposed_port'

Exposed Port Error

class konan_sdk.konan_types.KonanDeploymentError(*type: KonanDeploymentErrorType, message: str*)

Bases: *object*

Error returned by the Konan API when attempting to create a new Konan Deployment.

__init__(*type: KonanDeploymentErrorType, message: str*) → None

Initialize a new KonanDeploymentError.

Parameters

- **type** (*KonanDeploymentErrorType*) – Type of the error encountered
- **message** (*str*) – Message of the error encountered


```
class konan_sdk.konan_types.KonanLiveModelSwitchState(switch_to: KonanModelState,
                                                         new_live_model_uuid: str)
```

Bases: `object`

Konan Live Model Switch State

```
__init__(switch_to: KonanModelState, new_live_model_uuid: str) → None
```

Initialize a new KonanLiveModelSwitchState

Parameters

- **switch_to** (`KonanModelState`) – state of model to switch to
- **new_live_model_uuid** (`str`) – UUID of the model to promote to live

```
class konan_sdk.konan_types.KonanModel(uuid: str, name: str, created_at: datetime, state:
                                         KonanModelState)
```

Bases: `object`

Konan Model

```
__init__(uuid: str, name: str, created_at: datetime, state: KonanModelState) → None
```

Initialize a new KonanModel

Parameters

- **uuid** (`str`) – UUID of the Konan Mode
- **name** (`str`) – Name of the Konan Mode
- **created_at** (`datetime.datetime`) – Konan Model creation date and time
- **state** (`KonanModelState`) – State of the Konan Model

```
class konan_sdk.konan_types.KonanDeployment(uuid: str, name: str, created_at: datetime)
```

Bases: `object`

Konan Deployment.

```
__init__(uuid: str, name: str, created_at: datetime) → None
```

Initialize a new KonanDeployment.

Parameters

- **uuid** (`str`) – UUID of the Konan Deployment
- **name** (`str`) – Name of the Konan Deployment
- **created_at** (`datetime.datetime`) – Konan Deployment creation date and time

```
class konan_sdk.konan_types.KonanDeploymentCreationResponse(deployment: KonanDeployment,
                                                             live_model: KonanModel, errors:
                                                             List[KonanDeploymentError],
                                                             container_logs: str)
```

Bases: `object`

Information returned by the Konan API when attempting to create a new Konan Deployment.

```
__init__(deployment: KonanDeployment, live_model: KonanModel, errors: List[KonanDeploymentError],
         container_logs: str) → None
```

Initialize a new KonanDeploymentCreationResponse.

Parameters

- **deployment** (`KonanDeployment`) – Konan Deployment Created
- **errors** (`List[KonanDeploymentError]`) – Errors encountered when attempting to create the new Konan Deployment
- **container_logs** (`str`) – Container logs generated when creating the new Konan Deployment

class `konan_sdk.konan_types.KonanTimeWindow`(`start_time: datetime`, `end_time: datetime`)

Bases: `object`

Konan Time Window of certain events.

__init__(`start_time: datetime`, `end_time: datetime`) → `None`

Initialize a new `KonanTimeWindow`.

Parameters

- **start_time** (`datetime.datetime`) – Starting date and time of events to consider
- **end_time** (`datetime.datetime`) – Ending date and time of events to consider

class `konan_sdk.konan_types.KonanFeedbackSubmission`(`prediction_uuid: str`, `target: Union[Dict, str]`)

Bases: `object`

Konan Feedback to send to the Konan API.

__init__(`prediction_uuid: str`, `target: Union[Dict, str]`) → `None`

Initialize a new `KonanFeedbackSubmission`.

Parameters

- **prediction_uuid** (`str`) – Prediction UUID to provide the Feedback for
- **target** (`Union[Dict, str]`) – Ground Truth Target

class `konan_sdk.konan_types.KonanFeedbackStatus`(`prediction_uuid: str`, `status: int`, `message: str`)

Bases: `object`

Feedback Status returned by the Konan API.

__init__(`prediction_uuid: str`, `status: int`, `message: str`) → `None`

Initialize a new `KonanFeedbackStatus`.

Parameters

- **prediction_uuid** (`str`) – Prediction UUID
- **status** (`int`) – Feedback status integer
- **message** (`str`) – Feedback status message

class `konan_sdk.konan_types.KonanFeedbacksResult`(`feedbacks_status: List[KonanFeedbackStatus]`,
`success_count: int`, `failure_count: int`, `total_count: int`)

Bases: `object`

Bulk results of the Konan API when submitting Feedbacks.

__init__(`feedbacks_status: List[KonanFeedbackStatus]`, `success_count: int`, `failure_count: int`, `total_count: int`) → `None`

Initialize a new `KonanFeedbacksResult`.

Parameters

- **feedbacks_status** (*List*[[KonanFeedbackStatus](#)]) – Status of all submitted Feedbacks
- **success_count** (*int*) – Number of successfully created Feedbacks
- **failure_count** (*int*) – Number of failed Feedbacks to create
- **total_count** (*int*) – Total number of Feedbacks submitted

1.7 Konan Metrics

class `konan_sdk.konan_metrics.KonanBaseMetric`(*value: Any, **kwargs*)

Bases: [ABC](#)

Base class for Konan*Metric classes.

abstract property name: `str`

Return the name of the Konan*Metric.

Returns

Metric name

Return type

`str`

__init__(*value: Any, **kwargs*)

Initialize a new Konan*Metric object.

Parameters

value (*Any*) – Metric value

class `konan_sdk.konan_metrics.KonanRMSEMetric`(*value: Any, **kwargs*)

Bases: [KonanBaseMetric](#)

Konan RMSE Metric.

property name: `str`

Return the name of the Konan*Metric.

Returns

Metric name

Return type

`str`

class `konan_sdk.konan_metrics.KonanMAEMetric`(*value: Any, **kwargs*)

Bases: [KonanBaseMetric](#)

Konan MAE Metric.

property name: `str`

Return the name of the Konan*Metric.

Returns

Metric name

Return type

`str`

class konan_sdk.konan_metrics.**KonanPrecisionMetric**(value: *Any*, ***kwargs*)

Bases: *KonanBaseMetric*

Konan Precision Metric.

property name: *str*

Return the name of the Konan*Metric.

Returns

Metric name

Return type

str

class konan_sdk.konan_metrics.**KonanRecallMetric**(value: *Any*, ***kwargs*)

Bases: *KonanBaseMetric*

Konan Recall Metric.

property name: *str*

Return the name of the Konan*Metric.

Returns

Metric name

Return type

str

class konan_sdk.konan_metrics.**KonanF1ScoreMetric**(value: *Any*, ***kwargs*)

Bases: *KonanBaseMetric*

Konan F1 Score Metric.

property name: *str*

Return the name of the Konan*Metric.

Returns

Metric name

Return type

str

class konan_sdk.konan_metrics.**KonanConfusionMatrixMetric**(value: *Any*, ***kwargs*)

Bases: *KonanBaseMetric*

Konan Confusion Matrix Metric.

property name: *str*

Return the name of the Konan*Metric.

Returns

Metric name

Return type

str

class konan_sdk.konan_metrics.**KonanMultiLabelConfusionMatrixMetric**(value: *Any*, ***kwargs*)

Bases: *KonanBaseMetric*

Konan Multi Label Confusion Matrix Metric.

property name: `str`

Return the name of the Konan*Metric.

Returns

Metric name

Return type

`str`

class `konan_sdk.konan_metrics.KonanCustomMetric`(*value: Any, name='undefined', **kwargs*)

Bases: `KonanBaseMetric`

Konan Custom Metric.

property name: `str`

Return the name of the Konan Custom Metric.

Returns

Custom Konan Metric name

Return type

`str`

__init__(*value: Any, name='undefined', **kwargs*)

Initialize a new KonanCustomMetric

Parameters

- **value** (*Any*) – Metric value
- **name** (`str`, *optional*) – Metric name, defaults to “undefined”

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