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**konan-sdk**

**Synapse Analytics**

**Dec 18, 2022**



# 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.

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**Note:** This project is under active development.

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## 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



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```
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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