
konan-sdk

Synapse Analytics

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INTRODUCTION

1	Contents	3
	Python Module Index	15
	Index	17

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("<email>", "<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 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: pydantic.main.BaseModel
```

Predict Request serializer for input format validation.

```
class konan_sdk.konan_service.serializers.KonanServiceBasePredictionResponse
    Bases: pydantic.main.BaseModel
```

Predict Response serializer for output format validation.

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

    Bases: pydantic.main.BaseModel
```

Evaluation model for input format validation.

```
    prediction: konan_sdk.konan_service.serializers.KonanServiceBasePredictionResponse
        Past prediction output
```

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

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

    Bases: pydantic.main.BaseModel
```

Evaluate Request serializer for input format validation.

```
    data: List[konan_sdk.konan_service.serializers.KonanServiceBaseFeedback]
        List of past predictions along side their feedbacks
```

```
class konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName(value)

    Bases: str, enum.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[konan_sdk.konan_service.serializers.Konan
                                                                    str], metric_value: Any =
                                                                    None)

Bases: pydantic.main.BaseModel

A Konan Model's evaluation

metric_name:
Union[konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName, str]
    Name of the metric

metric_value: Any
    Value of the metric

class konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateResponse(*, results:
                                                                              List[konan_sdk.konan_service.seriali

Bases: pydantic.main.BaseModel

Evaluate Response serializer for output format validation.

results: List[konan_sdk.konan_service.serializers.KonanServiceEvaluation]
    List of evaluations returned by the model
```

1.3 Konan Service Model

```
class konan_sdk.konan_service.models.KonanServiceBaseModel
Bases: abc.ABC

abstract predict(req: konan_sdk.konan_service.serializers.KonanServiceBasePredictionRequest) →
    konan_sdk.konan_service.serializers.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: konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateRequest) →
    konan_sdk.konan_service.serializers.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
                                                    'ko-
                                                    nan_sdk.konan_service.serializers.KonanServiceBaseEvaluateResp
                                                    *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: str, password: str) → None
Login to Konan with user credentials
```

Parameters

- **email** (*str*) – email of registered user
- **password** (*str*) – password of registered user

create_deployment(*name: str, docker_credentials: konan_sdk.konan_types.KonanDockerCredentials, docker_image: konan_sdk.konan_types.KonanDockerImage*) → *konan_sdk.konan_types.KonanDeploymentCreationResponse*

Call the create deployment function

Parameters

- **name** (*str*) – name of the deployment to create
- **docker_credentials** (*KonanDockerCredentials*) – credentials for the docker registry to use
- **docker_image** (*KonanDockerImage*) – docker image information

Returns *konan_deployment_creation_response*

Return type *KonanDeploymentCreationResponse*

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.datetime, end_time: datetime.datetime*) → *List[konan_sdk.konan_metrics.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[konan_sdk.konan_types.KonanFeedbackSubmission]*) → *konan_sdk.konan_types.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_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*)

Bases: `object`

Successful prediction registered with the Konan API.

__init__(*uuid: str, output: Dict*) → None

Initialize a new KonanPrediction.

Parameters

- **uuid** (*str*) – Prediction uuid
- **output** (*Dict*) – Live model output

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.KonanDeploymentCreationRequest(name: str, docker_credentials: konan_sdk.konan_types.KonanDockerCredentials,
                                                           docker_image: konan_sdk.konan_types.KonanDockerImage)
```

Bases: `object`

Information required to issue a create a new Konan Deployment.

```
__init__(name: str, docker_credentials: konan_sdk.konan_types.KonanDockerCredentials, docker_image: konan_sdk.konan_types.KonanDockerImage) → None
```

Initialize a new KonanDeploymentCreationRequest.

Parameters

- **name** (`str`) – Name of the new Konan Deployment.
- **docker_credentials** (`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.KonanDeploymentErrorType(value)
```

Bases: `enum.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: konan_sdk.konan_types.KonanDeploymentErrorType,
                                                  message: str)
```

Bases: `object`

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

```
__init__(type: konan_sdk.konan_types.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.KonanDeployment(uuid: str, name: str, created_at: datetime.datetime)
    Bases: object
```

Konan Deployment.

```
__init__(uuid: str, name: str, created_at: datetime.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: konan_sdk.konan_types.KonanDeployment,
    errors: List[konan_sdk.konan_types.KonanDeploymentError],
    container_logs: str)
```

Bases: object

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

```
__init__(deployment: konan_sdk.konan_types.KonanDeployment, errors:
    List[konan_sdk.konan_types.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.datetime, end_time:
    datetime.datetime)
```

Bases: object

Konan Time Window of certain events.

```
__init__(start_time: datetime.datetime, end_time: datetime.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[konan_sdk.konan_types.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[konan_sdk.konan_types.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.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: *konan_sdk.konan_metrics.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: `konan_sdk.konan_metrics.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: `konan_sdk.konan_metrics.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: `konan_sdk.konan_metrics.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: `konan_sdk.konan_metrics.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: `konan_sdk.konan_metrics.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: [konan_sdk.konan_metrics.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: [konan_sdk.konan_metrics.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”

PYTHON MODULE INDEX

k

`konan_sdk.konan_metrics`, [11](#)
`konan_sdk.konan_service.serializers`, [4](#)
`konan_sdk.konan_types`, [8](#)

INDEX

Symbols

`__init__()` (`konan_sdk.konan_metrics.KonanBaseMetric` method), 11
`__init__()` (`konan_sdk.konan_metrics.KonanCustomMetric` method), 13
`__init__()` (`konan_sdk.konan_service.services.KonanService` method), 6
`__init__()` (`konan_sdk.konan_types.KonanCredentials` method), 8
`__init__()` (`konan_sdk.konan_types.KonanDeployment` method), 10
`__init__()` (`konan_sdk.konan_types.KonanDeploymentCreationRequest` method), 9
`__init__()` (`konan_sdk.konan_types.KonanDeploymentCreationResponse` method), 10
`__init__()` (`konan_sdk.konan_types.KonanDeploymentError` method), 9
`__init__()` (`konan_sdk.konan_types.KonanDockerCredentials` method), 8
`__init__()` (`konan_sdk.konan_types.KonanDockerImage` method), 9
`__init__()` (`konan_sdk.konan_types.KonanFeedbackStatus` method), 11
`__init__()` (`konan_sdk.konan_types.KonanFeedbackSubmission` method), 10
`__init__()` (`konan_sdk.konan_types.KonanFeedbacksResult` method), 11
`__init__()` (`konan_sdk.konan_types.KonanPrediction` method), 8
`__init__()` (`konan_sdk.konan_types.KonanTimeWindow` method), 10
`__init__()` (`konan_sdk.konan_types.KonanTokens` method), 8
`__init__()` (`konan_sdk.sdk.KonanSDK` method), 6

C

`confusion_matrix` (`konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName` attribute), 4
`create_deployment()` (`konan_sdk.sdk.KonanSDK` method), 7

D

`data` (`konan_sdk.konan_service.serializers.KonanServiceBaseEvaluateRequest` attribute), 4
`delete_deployment()` (`konan_sdk.sdk.KonanSDK` method), 7

E

`evaluate()` (`konan_sdk.konan_service.models.KonanServiceBaseModel` method), 5
`evaluate()` (`konan_sdk.sdk.KonanSDK` method), 7
`ExposedPort` (`konan_sdk.konan_types.KonanDeploymentErrorType` attribute), 9

F

`f1_score` (`konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName` attribute), 4
`feedback()` (`konan_sdk.sdk.KonanSDK` method), 7

H

`HealthEndpoint` (`konan_sdk.konan_types.KonanDeploymentErrorType` attribute), 9

I

`Image` (`konan_sdk.konan_types.KonanDeploymentErrorType` attribute), 9

K

`konan_sdk.konan_metrics` module, 11
`konan_sdk.konan_service.serializers` module, 4
`konan_sdk.konan_types` module, 8
`KonanBaseMetric` (class in `konan_sdk.konan_metrics`), 11
`KonanConfusionMatrixMetric` (class in `konan_sdk.konan_metrics`), 12
`KonanCredentials` (class in `konan_sdk.konan_types`), 8
`KonanCustomMetric` (class in `konan_sdk.konan_metrics`), 13
`KonanDeployment` (class in `konan_sdk.konan_types`), 9

KonanDeploymentCreationRequest (class in *konan_sdk.konan_types*), 9
KonanDeploymentCreationResponse (class in *konan_sdk.konan_types*), 10
KonanDeploymentError (class in *konan_sdk.konan_types*), 9
KonanDeploymentErrorType (class in *konan_sdk.konan_types*), 9
KonanDockerCredentials (class in *konan_sdk.konan_types*), 8
KonanDockerImage (class in *konan_sdk.konan_types*), 8
KonanF1ScoreMetric (class in *konan_sdk.konan_metrics*), 12
KonanFeedbacksResult (class in *konan_sdk.konan_types*), 11
KonanFeedbackStatus (class in *konan_sdk.konan_types*), 11
KonanFeedbackSubmission (class in *konan_sdk.konan_types*), 10
KonanMAEMetric (class in *konan_sdk.konan_metrics*), 12
KonanMultiLabelConfusionMatrixMetric (class in *konan_sdk.konan_metrics*), 12
KonanPrecisionMetric (class in *konan_sdk.konan_metrics*), 12
KonanPrediction (class in *konan_sdk.konan_types*), 8
KonanRecallMetric (class in *konan_sdk.konan_metrics*), 12
KonanRMSEMetric (class in *konan_sdk.konan_metrics*), 11
KonanSDK (class in *konan_sdk.sdk*), 6
KonanService (class in *konan_sdk.konan_service.services*), 6
KonanServiceBaseEvaluateRequest (class in *konan_sdk.konan_service.serializers*), 4
KonanServiceBaseEvaluateResponse (class in *konan_sdk.konan_service.serializers*), 5
KonanServiceBaseFeedback (class in *konan_sdk.konan_service.serializers*), 4
KonanServiceBaseModel (class in *konan_sdk.konan_service.models*), 5
KonanServiceBasePredictionRequest (class in *konan_sdk.konan_service.serializers*), 4
KonanServiceBasePredictionResponse (class in *konan_sdk.konan_service.serializers*), 4
KonanServiceEvaluation (class in *konan_sdk.konan_service.serializers*), 4
KonanServicePredefinedMetricName (class in *konan_sdk.konan_service.serializers*), 4
KonanTimeWindow (class in *konan_sdk.konan_types*), 10
KonanTokens (class in *konan_sdk.konan_types*), 8

L

login() (*konan_sdk.sdk.KonanSDK* method), 6

M

mae (*konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName* attribute), 4
metric_name (*konan_sdk.konan_service.serializers.KonanServiceEvaluation* attribute), 5
metric_value (*konan_sdk.konan_service.serializers.KonanServiceEvaluation* attribute), 5
module
 konan_sdk.konan_metrics, 11
 konan_sdk.konan_service.serializers, 4
 konan_sdk.konan_types, 8
multi_label_confusion_matrix (*konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName* attribute), 4

N

name (*konan_sdk.konan_metrics.KonanBaseMetric* property), 11
name (*konan_sdk.konan_metrics.KonanConfusionMatrixMetric* property), 12
name (*konan_sdk.konan_metrics.KonanCustomMetric* property), 13
name (*konan_sdk.konan_metrics.KonanF1ScoreMetric* property), 12
name (*konan_sdk.konan_metrics.KonanMAEMetric* property), 12
name (*konan_sdk.konan_metrics.KonanMultiLabelConfusionMatrixMetric* property), 13
name (*konan_sdk.konan_metrics.KonanPrecisionMetric* property), 12
name (*konan_sdk.konan_metrics.KonanRecallMetric* property), 12
name (*konan_sdk.konan_metrics.KonanRMSEMetric* property), 11

P

precision (*konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName* attribute), 4
predict() (*konan_sdk.konan_service.models.KonanServiceBaseModel* method), 5
predict() (*konan_sdk.sdk.KonanSDK* method), 7
prediction (*konan_sdk.konan_service.serializers.KonanServiceBaseFeedback* attribute), 4

R

recall (*konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName* attribute), 4
results (*konan_sdk.konan_service.serializers.KonanServiceBaseEvaluation* attribute), 5
rmse (*konan_sdk.konan_service.serializers.KonanServicePredefinedMetricName* attribute), 4

T

target (*konan_sdk.konan_service.serializers.KonanServiceBaseFeedback
attribute*), [4](#)