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**konan-sdk**

**Synapse Analytics**

**Mar 24, 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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## 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”



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