
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("<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: 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
                                                        '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: 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** (`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: KonanDockerCredentials,
              docker_image: KonanDockerImage) → 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** (`KonanDockerCredentials`) – credentials for the docker registry to use
- **docker_image** (`KonanDockerImage`) – docker image information

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*)

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 hte docker image exposes its services at

class konan_sdk.konan_types.**KonanModelCreationRequest**(*name: str, docker_credentials: KonanDockerCredentials, docker_image: KonanDockerImage*)

Bases: *object*

Information required to create a new Konan Model.

__init__(*name: str, docker_credentials: KonanDockerCredentials, docker_image: KonanDockerImage*) → *None*

Initialize a new KonanModelCreationRequest.

Parameters

- **name** (*str*) – Name of the new Konan Mode.
- **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.**KonanDeploymentCreationRequest**(*name: str, model_creation_request: KonanModelCreationRequest*)

Bases: *object*

Information required to issue a create a new Konan Deployment.

__init__ (*name: str, model_creation_request: KonanModelCreationRequest*) → None

Initialize a new KonanDeploymentCreationRequest.

Parameters

- **name** (*str*) – Name of the new Konan Deployment.
- **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.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.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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