
Craft AI MLOps platform Python SDK

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Craft AI

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craft_ai_sdk package

1.1 craft_ai_sdk.exceptions module

exception `craft_ai_sdk.exceptions.SdkException`(*message, status_code=None, name=None, stack_message=None, request_id=None, additional_data=None*)

Bases: `Exception`

General exception while using this package

1.2 craft_ai_sdk.sdk module

See section *CraftAiSdk class* for more details.

CraftAiSdk class

```
class craft_ai_sdk.CraftAiSdk(sdk_token=None, environment_url=None, control_url=None,  
                             verbose_log=None, warn_on_metric_outside_of_step=True)
```

Main class to instantiate

base_environment_url

Base URL to CraftAI Environment.

Type
str

base_environment_api_url

Base URL to CraftAI Environment API.

Type
str

base_control_url

Base URL to CraftAI authorization server.

Type
str

base_control_api_url

Base URL to CraftAI authorization server API.

Type
str

verbose_log

If True, information during method execution will be printed.

Type
bool

warn_on_metric_outside_of_step

If True, a warning will be printed when a metric is added outside of a step.

Type
bool

```
__init__(sdk_token=None, environment_url=None, control_url=None, verbose_log=None,  
         warn_on_metric_outside_of_step=True)
```

Inits CraftAiSdk.

Parameters

- **sdk_token** (str, optional) – SDK token. You can retrieve it from the website. Defaults to CRAFT_AI_SDK_TOKEN environment variable.
- **environment_url** (str, optional) – URL to CraftAI environment. Defaults to CRAFT_AI_ENVIRONMENT_URL environment variable.

- **control_url** (str, optional) – URL to CraftAI authorization server. You probably don't need to set it. Defaults to CRAFT_AI_CONTROL_URL environment variable, or <https://mlops-platform.craft.ai>.
- **verbose_log** (bool, optional) – If True, information during method execution will be printed. Defaults to True if the environment variable SDK_VERBOSE_LOG is set to true; False if it is set to false; else, defaults to True in interactive mode; False otherwise.
- **warn_on_metric_outside_of_step** (bool, optional) – If True, a warning will be raised when a metric is added outside of a step. Defaults to True.

Raises

- **ValueError** – if the sdk_token or environment_url is not defined and
- **the corresponding environment variable is not set.** –

2.1 Step

```
CraftAiSdk.create_step(step_name, function_path=None, function_name=None,  
                        description=None, container_config=None, inputs=None,  
                        outputs=None, timeout_s=180)
```

Create pipeline step from a function located on a remote repository.

Use STEP_PARAMETER to explicitly set a value to null or fall back on project information. You can also use container_config.included_folders to specify the files and folders required for the step execution. This is useful if your repository contains large files that are not required for the step execution, such as documentation or test files. Indeed there is a maximum limit of 5MB for the total size of the content specified with included_folders.

Parameters

- **step_name** (str) – Step name.
- **function_path** (str, optional) – Path to the file that contains the function. This parameter is required if parameter “dockerfile_path” is not specified.
- **function_name** (str, optional) – Name of the function in that file. This parameter is required if parameter “dockerfile_path” is not specified.
- **description** (str, optional) – Description. Defaults to None.
- **container_config** (dict[str, str], optional) – Some step configuration, with the following optional keys:
 - “language” (str): Language and version used for the step. Defaults to falling back on project information. The accepted formats are “python:3.X-slim”, where “3.X” is a supported version of Python, and “python-cuda:3.X-Y.Z” for GPU environments, where “Y.Z” is a supported version of CUDA. The list of supported versions is available on the official documentation website at <https://mlops-platform-documentation.craft.ai>.
 - “repository_url” (str): Remote repository url. Defaults to falling back on project information.
 - “repository_branch” (str): Branch name. Defaults to falling back on project information.
 - “repository_deploy_key” (str): Private SSH key of the repository. Defaults to falling back on project information, can be set to null. The

key should retain the header/footer beacon with : "BEGIN/END RSA PRIVATE KEY".

- "requirements_path" (str): Path to the requirements.txt file. Environment variables created through `create_or_update_environment_variable()` can be used in requirements.txt, as in "\${ENV_VAR}". Defaults to falling back on project information, can be set to null.
- "included_folders" (list[str]): List of folders and files in the repository required for the step execution. Defaults to falling back on project information, can be set to null. Total size of included_folders must be less than 5MB.
- "system_dependencies" (list[str]): List of system dependencies. Defaults to falling back on project information, can be set to null.
- "dockerfile_path" (str): Path to the Dockerfile. This parameter should only be used as a last resort and for advanced use. When specified, the following parameters should be set to null: "function_path", "function_name", "language", "requirements_path" and "system_dependencies".
- **inputs** (list of instances of `Input`) – List of inputs. Each parameter of the step function should be specified as an instance of `Input` via this parameter `inputs`. During the execution of the step, the value of the inputs would be passed as function arguments.
- **outputs** (list of instances of `Output`) – List of the step outputs. For the step to have outputs, the function should return a dict with the name of the output as keys and the value of the output as values. Each output should be specified as an instance of `Output` via this parameter `outputs`.
- **timeout_s** (int) – Maximum time (in seconds) to wait for the step to be created. 3min (180s) by default, and at least 2min (120s).

Returns

Created step represented as a dict with the following keys:

- "parameters" (dict): Information used to create the step with the following keys:
 - "step_name" (str): Name of the step.
 - "function_path" (str): Path to the file that contains the function.
 - "function_name" (str): Name of the function in that file.
 - "repository_branch" (str): Branch name.
 - "description" (str): Description.
 - "inputs" (list of dict): List of inputs represented as a dict with the following keys:
 - * "name" (str): Input name.
 - * "data_type" (str): Input data type.
 - * "is_required" (bool): Whether the input is required.
 - * "default_value" (str): Input default value.
 - "outputs" (list of dict): List of outputs represented as a dict with the following keys:
 - * "name" (str): Output name.
 - * "data_type" (str): Output data type.

- * "description" (str): Output description.
- "container_config" (dict[str, str]): Some step configuration, with the following optional keys:
 - * "language" (str): Language and version used for the step. The accepted formats are "python:3.X-slim", where "3.X" is a supported version of Python, and "python-cuda:3.X-Y.Z" for GPU environments, where "Y.Z" is a supported version of CUDA. The list of supported versions is available on the official documentation website at <https://mlops-platform-documentation.craft.ai>.
 - * "repository_url" (str): Remote repository url.
 - * "included_folders" (list[str]): List of folders and files in the repository required for the step execution.
 - * "system_dependencies" (list[str]): List of system dependencies.
 - * "dockerfile_path" (str): Path to the Dockerfile.
 - * "requirements_path" (str): Path to the requirements.txt file.
- "creation_info" (dict): Information about the step creation:
 - "created_at" (str): The creation date in ISO format.
 - "updated_at" (str): The last update date in ISO format.
 - "commit_id" (str): The commit id on which the step was built.
 - "status" (str): The step status, always "Ready" when this function returns.

Return type

dict

`CraftAiSdk.get_step(step_name)`

Get a single step if it exists.

Parameters

step_name (str) – The name of the step to get.

Returns

None if the step does not exist; otherwise the step information, with the following keys:

- "parameters" (dict): Information used to create the step with the following keys:
 - "step_name" (str): Name of the step.
 - "function_path" (str): Path to the file that contains the function.
 - "function_name" (str): Name of the function in that file.
 - "description" (str): Description.
 - "inputs" (list of dict): List of inputs represented as a dict with the following keys:
 - * "name" (str): Input name.
 - * "data_type" (str): Input data type.
 - * "is_required" (bool): Whether the input is required.
 - * "default_value" (str): Input default value.
 - "outputs" (list of dict): List of outputs represented as a dict with the following keys:

- * "name" (str): Output name.
- * "data_type" (str): Output data type.
- * "description" (str): Output description.
- "container_config" (dict[str, str]): Some step configuration, with the following optional keys:
 - * "language" (str): Language and version used for the step. The accepted formats are "python:3.X-slim", where "3.X" is a supported version of Python, and "python-cuda:3.X-Y.Z" for GPU environments, where "Y.Z" is a supported version of CUDA. The list of supported versions is available on the official documentation website at <https://mlops-platform-documentation.craft.ai>.
 - * "repository_url" (str): Remote repository url.
 - * "repository_branch" (str): Branch name.
 - * "included_folders" (list[str]): List of folders and files in the repository required for the step execution.
 - * "system_dependencies" (list[str]): List of system dependencies.
 - * "dockerfile_path" (str): Path to the Dockerfile.
 - * "requirements_path" (str): Path to the requirements.txt file.
- "creation_info" (dict): Information about the step creation:
 - "created_at" (str): The creation date in ISO format.
 - "updated_at" (str): The last update date in ISO format.
 - "commit_id" (str): The commit id on which the step was built.
 - "status" (str): either "Pending" or "Ready".

Return type
dict

`CraftAiSdk.update_step(step_name, function_path=None, function_name=None, description=None, container_config=None)`

Update a pipeline step from a source code located on a remote repository.

Warning: This feature is experimental and may behave unexpectedly. It is your responsibility to check the state and behavior of the step after an update. If the creation of the new step configuration takes more than roughly a minute, this function will return (time out) before the update terminated and you will need to check the step status manually at regular intervals. If several step updates are applied at the same time, the behavior is undefined.

The current step configuration will be **replaced** by the provided options. Use `STEP_PARAMETER` to explicitly set a value to null or fall back on project information.

Parameters

- **step_name** (str) – Name of the step to update.
- **function_path** (str, optional) – Path to the file that contains the function. This parameter is required if parameter "dockerfile_path" is not specified.
- **function_name** (str, optional) – Name of the function in that file. This parameter is required if parameter "dockerfile_path" is not specified.

- **repository_branch** (str, optional) – Branch name. Defaults to falling back on project information.
- **description** (str, optional) – Description. Defaults to None.
- **container_config** (dict[str, str], optional) – Some step configuration, with the following optional keys:
 - "language" (str): Language and version used for the step. Defaults to falling back on project information. The accepted formats are "python:3.X-slim", where "3.X" is a supported version of Python, and "python-cuda:3.X-Y.Z" for GPU environments, where "Y.Z" is a supported version of CUDA. The list of supported versions is available on the official documentation website at <https://mlops-platform-documentation.craft.ai>.
 - "repository_url" (str): Remote repository url. Defaults to falling back on project information.
 - "repository_deploy_key" (str): Private SSH key of the repository. Defaults to falling back on project information, can be set to null. The key should retain the header/footer beacon with : "BEGIN/END RSA PRIVATE KEY".
 - "requirements_path" (str): Path to the requirements.txt file. Environment variables created through `create_or_update_environment_variable()` can be used in requirements.txt, as in "\${ENV_VAR}". Defaults to falling back on project information, can be set to null.
 - "included_folders" (list[str]): List of folders and files in the repository required for the step execution. Defaults to falling back on project information, can be set to null.
 - "system_dependencies" (list[str]): List of system dependencies. Defaults to falling back on project information, can be set to null.
 - "dockerfile_path" (str): Path to the Dockerfile. This parameter should only be used as a last resort and for advanced use. When specified, the following parameters should be set to null: "function_path", "function_name", "language", "requirements_path" and "system_dependencies".

Returns

The updated step represented as a dict with the following keys:

- "parameters" (dict): Information used to create the step with the following keys:
 - "step_name" (str): Name of the step.
 - "function_path" (str): Path to the file that contains the function.
 - "function_name" (str): Name of the function in that file.
 - "description" (str): Description.
 - "inputs" (list of dict): List of inputs represented as a dict with the following keys:
 - * "name" (str): Input name.
 - * "data_type" (str): Input data type.
 - * "is_required" (bool): Whether the input is required.
 - * "default_value" (str): Input default value.

- "outputs" (list of dict): List of outputs represented as a dict with the following keys:
 - * "name" (str): Output name.
 - * "data_type" (str): Output data type.
 - * "description" (str): Output description.
- "container_config" (dict[str, str]): Some step configuration, with the following optional keys:
 - * "language" (str): Language and version used for the step. The accepted formats are "python:3.X-slim", where "3.X" is a supported version of Python, and "python-cuda:3.X-Y.Z" for GPU environments, where "Y.Z" is a supported version of CUDA. The list of supported versions is available on the official documentation website at <https://mlops-platform-documentation.craft.ai>.
 - * "repository_url" (str): Remote repository url.
 - * "repository_branch" (str): Branch name.
 - * "included_folders" (list[str]): List of folders and files in the repository required for the step execution.
 - * "system_dependencies" (list[str]): List of system dependencies.
 - * "dockerfile_path" (str): Path to the Dockerfile.
 - * "requirements_path" (str): Path to the requirements.txt file.
- "creation_info" (dict): Information about the step creation:
 - "created_at" (str): The creation date in ISO format.
 - "updated_at" (str): The last update date in ISO format.
 - "commit_id" (str): The commit id on which the step was built.
 - "status" (str): either "Pending" or "Ready".

Return type

dict

CraftAiSdk.list_steps()

Get the list of all steps.

Returns

List of steps represented as dict with the following keys:

- "step_name" (str): Name of the step.
- "status" (str): either "Pending" or "Ready".
- "created_at" (str): The creation date in ISO format.
- "updated_at" (str): The last update date in ISO format.
- "repository_branch" (str): The branch of the repository where the step was built.
- "repository_url" (str): The url of the repository where the step was built.
- "commit_id" (str): The commit id on which the step was built.

Return type

list of dict

`CraftAiSdk.delete_step(step_name, force_dependents_deletion=False)`

Delete one step.

Parameters

- **step_name** (str) – Name of the step to delete as defined in the config. yaml configuration file.
- **force_dependents_deletion** (bool, optional) – if True the associated step's dependencies will be deleted too (pipeline, pipeline executions, deployments). Defaults to False.

Returns

The deleted step represented as a dict with the following keys:

- "step_name" (str): Name of the step.

Return type

dict[str, str]

class `craft_ai_sdk.Input`(*name, data_type, description=None, is_required=None, default_value=None*)

Class to specify a step input when creating a step (cf. [*CraftAiSdk.create_step\(\)*](#)).

Parameters

- **name** (str) – Name of the input. This corresponds to the name of a parameter of a step function.
- **data_type** (str) – Type of the input: It could be one of "string", "number", "boolean", "json", "array" or "file". For convenience, members of the enumeration [*INPUT_OUTPUT_TYPES*](#) could be used too.
- **description** (str, optional) – Description. Defaults to None.
- **is_required** (bool, optional) – Specify if an value should be provided at execution time. Defaults to None.
- **default_value** (Any, optional) – A default value for the step input at execution time. The type for *default_value* should match the type specified by *data_type*. Defaults to None.

class `craft_ai_sdk.Output`(*name, data_type, description=None*)

Class to specify a step output when creating a step (cf. [*CraftAiSdk.create_step\(\)*](#)).

Parameters

- **name** (str) – Name of the output. This corresponds to the key of the *dict* returned by the step function.
- **data_type** (str) – Type of the output. It could be one of "string", "number", "boolean", "json", "array" or "file". For convenience, members of the enumeration [*INPUT_OUTPUT_TYPES*](#) could be used too.
- **description** (str, optional) – Description. Defaults to None.

class `craft_ai_sdk.INPUT_OUTPUT_TYPES`(*strenum.LowercaseStrEnum*)

Enumeration for Input and Output data types.

ARRAY = 'array'

BOOLEAN = 'boolean'

FILE = 'file'

JSON = 'json'

```
NUMBER = 'number'

STRING = 'string'
```

2.2 Pipeline

`CraftAiSdk.create_pipeline(pipeline_name, step_name)`

Create a pipeline containing a single step.

Parameters

- **pipeline_name** (str) – Name of the pipeline to be created.
- **step_name** (str) – Name of the step to be included in the pipeline. Note that the step should have the status "Ready" to create the pipeline.

Returns

Created pipeline represented as dict with the following keys:

- "pipeline_name" (str): Name of the pipeline.
- "created_at" (str): Pipeline date of creation.
- "steps" (list[str]): List of step names included in the pipeline.
- "open_inputs" (list of dict): List of open inputs of the pipeline. Each open input is represented as a dict with the following keys:
 - "input_name" (str): Name of the open input.
 - "step_name" (str): Name of the step that provides the open input.
 - "data_type" (str): Data type of the open input.
 - "description" (str): Description of the open input.
 - "default_value" (str): Default value of the open input.
 - "is_required" (bool): Whether the open input is required or not.
- "open_outputs" (list of dict): List of open outputs of the pipeline. Each open output is represented as a dict with the following keys:
 - "output_name" (str): Name of the open output.
 - "step_name" (str): Name of the step that provides the open output.
 - "data_type" (str): Data type of the open output.
 - "description" (str): Description of the open output.

Return type

dict

`CraftAiSdk.get_pipeline(pipeline_name)`

Get a single pipeline if it exists.

Parameters

- **pipeline_name** (str) – Name of the pipeline to get.

Returns

None if the pipeline does not exist, otherwise pipeline information, with the following keys:

- "pipeline_name" (str): Name of the pipeline.
- "created_at" (str): Pipeline date of creation.

- "created_by" (str): ID of the user who created the deployment.
- "last_execution_id" (str): ID of the last execution of the pipeline.
- "steps" (list[str]): List of step names included in the pipeline.
- "open_inputs" (list of dict): List of open inputs of the pipeline. Each open input is represented as a dict with the following keys:
 - "input_name" (str): Name of the open input.
 - "step_name" (str): Name of the step that provides the open input.
 - "data_type" (str): Data type of the open input.
 - "description" (str): Description of the open input.
 - "default_value" (str): Default value of the open input.
 - "is_required" (bool): Whether the open input is required or not.
- "open_outputs" (list of dict): List of open outputs of the pipeline. Each open output is represented as a dict with the following keys:
 - "output_name" (str): Name of the open output.
 - "step_name" (str): Name of the step that provides the open output.
 - "data_type" (str): Data type of the open output.
 - "description" (str): Description of the open output.

`CraftAiSdk.delete_pipeline(pipeline_name, force_deployments_deletion=False)`

Delete a pipeline identified by its name.

Parameters

- **pipeline_name** (str) – Name of the pipeline.
- **force_deployments_deletion** (bool, optional) – if True the associated endpoints will be deleted too. Defaults to False.

Returns

The deleted pipeline and its associated deleted deployments represented as a dict with the following keys:

- "pipeline" (dict): Deleted pipeline represented as dict with the following keys:
 - "name" (str): Name of the deleted pipeline.
- "deployments" (list): List of deleted deployments represented as dict with the following keys:
 - "name" (str): Name of the deleted deployments.
 - "execution_rule" (str): Execution rule of the deleted deployments.

Return type
dict

`CraftAiSdk.list_pipelines()`

Get the list of all pipelines.

Returns

List of pipelines represented as dict with the following keys:

- "pipeline_name" (str): Name of the pipeline.
- "created_at" (str): Pipeline date of creation.

Return type

list of dict

2.3 Pipeline Execution

`CraftAiSdk.run_pipeline(pipeline_name, inputs=None, inputs_mapping=None, outputs_mapping=None)`

Run a pipeline.

Parameters

- **pipeline_name** (str) – Name of an existing pipeline.
- **inputs** (dict, optional) – Dictionary of inputs to pass to the pipeline with input names as keys and corresponding values as values. For files, the value should be the path to the file or a file content in an instance of `io.IOBase`. For json, string, number, boolean and array inputs, the size of all values should be less than 0.06MB. Defaults to None.
- **inputs_mapping** (list of instances of `InputSource`) – List of input mappings, to map pipeline inputs to different sources (`constant_value`, `environment_variable_name`, `datastore_path` or `is_null`). See `InputSource` for more details.
- **outputs_mapping** (list of instances of `OutputDestination`) – List of output mappings, to map pipeline outputs to different destinations (`is_null` or `datastore_path`). See `OutputDestination` for more details.

Returns

Pipeline execution outputs represented as a dict with the following keys:

- "execution_id" (str): Name of the pipeline execution.
- "outputs" (dict): Pipeline execution outputs with output names as keys and corresponding values as values.

Return type

dict

`CraftAiSdk.list_pipeline_executions(pipeline_name)`

Get a list of executions for the given pipeline

Parameters

- **pipeline_name** (str) – Name of an existing pipeline.

Returns

A list of information on the pipeline execution represented as dict with the following keys:

- "execution_id" (str): Name of the pipeline execution.
- "status" (str): Status of the pipeline execution.
- "created_at" (str): Date of creation of the pipeline execution.
- "created_by" (str): ID of the user who created the pipeline execution. In the case of a pipeline run, this is the user who triggered the run. In the case of an execution via a deployment, this is the user who created the deployment.
- "end_date" (str): Date of completion of the pipeline execution.
- "pipeline_name" (str): Name of the pipeline used for the execution.

- "deployment_name" (str): Name of the deployment used for the execution.
- "steps" (list of *obj*): List of the step executions represented as dict with the following keys:
 - "name" (str): Name of the step.
 - "status" (str): Status of the step.
 - "start_date" (str): Date of start of the step execution.
 - "end_date" (str): Date of completion of the step execution.
 - "commit_id" (str): Id of the commit used to build the step.
 - "repository_url" (str): Url of the repository used to build the step.
 - "repository_branch" (str): Branch of the repository used to build the step.
 - "requirements_path" (str): Path of the requirements.txt file

Return type

list

`CraftAiSdk.get_pipeline_execution(execution_id)`

Get the status of one pipeline execution identified by its execution_id.

Parameters**execution_id** (str) – Name of the pipeline execution.**Returns**

Information on the pipeline execution represented as dict with the following keys:

- "execution_id" (str): Name of the pipeline execution.
- "status" (str): Status of the pipeline execution.
- "created_at" (str): Date of creation of the pipeline
- "created_by" (str): ID of the user who created the pipeline execution. In the case of a pipeline run, this is the user who triggered the run. In the case of an execution via a deployment, this is the user who created the deployment.
- "end_date" (str): Date of completion of the pipeline execution.
- "pipeline_name" (str): Name of the pipeline used for the execution.
- "deployment_name" (str): Name of the deployment used for the execution.
- "steps" (list of *obj*): List of the step executions represented as dict with the following keys:
 - "name" (str): Name of the step.
 - "status" (str): Status of the step.
 - "start_date" (str): Date of start of the step execution.
 - "end_date" (str): Date of completion of the step execution.
 - "commit_id" (str): Id of the commit used to build the step.
 - "repository_url" (str): Url of the repository used to build the step.
 - "repository_branch" (str): Branch of the repository used to build the step.

- "requirements_path" (str): Path of the requirements.txt file
- "inputs" (list of dict): List of inputs represented as a dict with the following keys:
 - "step_input_name" (str): Name of the input.
 - "data_type" (str): Data type of the input.
 - "source" (str): Source of type of the input. Can be "environment_variable", "datastore", "constant", "is_null", "endpoint" or "run".
 - "endpoint_input_name" (str): Name of the input in the endpoint execution if source is "endpoint".
 - "constant_value" (str): Value of the constant if source is "constant".
 - "environment_variable_name" (str): Name of the environment variable if source is "environment_variable".
 - "is_null" (bool): True if source is "is_null".
 - "value": Value of the input.
- "outputs" (list of dict): List of outputs represented as a dict with the following keys:
 - "step_output_name" (str): Name of the output.
 - "data_type" (str): Data type of the output.
 - "destination" (str): Destination of type of the output. Can be "datastore", "is_null", "endpoint" or "run".
 - "endpoint_output_name" (str): Name of the output in the endpoint execution if destination is "endpoint".
 - "is_null" (bool): True if destination is "is_null".
 - "value": Value of the output.

Return type

dict

`CraftAiSdk.get_pipeline_execution_input(execution_id, input_name)`

Get the input value of an executed pipeline identified by its execution_id.

Parameters

- **execution_id** (str) – ID of the pipeline execution.
- **input_name** (str) – Name of the input.

Returns

Information on the input represented as a dict with the following keys :

- "step_input_name" (str): Name of the input.
- "data_type" (str): Data type of the input.
- "source" (str): Source of type of the input. Can be "environment_variable", "datastore", "constant", "is_null", "endpoint" or "run".
- "endpoint_input_name" (str): Name of the input in the endpoint execution if source is "endpoint".
- "constant_value" (str): Value of the constant if source is "constant".
- "environment_variable_name" (str): Name of the environment variable if source is "environment_variable".

- "is_null" (bool): True if source is "is_null".
- "value": Value of the input.

Return type

dict

`CraftAiSdk.get_pipeline_execution_output(execution_id, output_name)`

Get the output value of an executed pipeline identified by its execution_id.

Parameters

- **execution_id** (str) – ID of the pipeline execution.
- **output_name** (str) – Name of the output.

Returns

Information on the output represented as a dict with the following keys :

- "step_output_name" (str): Name of the output.
- "data_type" (str): Data type of the output.
- "destination" (str): Destination of type of the output. Can be "datas-tore", "is_null" "endpoint" or "run".
- "endpoint_output_name" (str): Name of the output in the endpoint execution if destination is "endpoint".
- "is_null" (bool): True if destination is "is_null".
- "value": Value of the output.

Return type

dict

`CraftAiSdk.get_pipeline_execution_logs(pipeline_name, execution_id,
from_datetime=None, to_datetime=None,
limit=None)`

Get the logs of an executed pipeline identified by its name.

Parameters

- **pipeline_name** (str) – Name of an existing pipeline.
- **execution_id** (str) – ID of the pipeline execution.
- **from_datetime** (datetime.time, optional) – Datetime from which the logs are collected.
- **to_datetime** (datetime.time, optional) – Datetime until which the logs are collected.
- **limit** (int, optional) – Maximum number of logs that are collected.

Returns

List of collected logs represented as dict with the following keys:

- "timestamp" (str): Timestamp of the log.
- "message" (str): Log message.

Return type

list of dict

`CraftAiSdk.delete_pipeline_execution(execution_id)`

Delete one pipeline execution identified by its execution_id.

Parameters

- **execution_id** (str) – Name of the pipeline execution.

Returns

Deleted pipeline execution represented as dict with the following keys:

- "execution_id" (str): Name of the pipeline execution.

Return type

dict

2.4 Deployment

```
CraftAiSdk.create_deployment(pipeline_name, deployment_name, execution_rule,
                              deployment_mode=DEPLOYMENT_MODES.ELASTIC,
                              schedule=None, inputs_mapping=None,
                              outputs_mapping=None, description=None,
                              timeout_s=180)
```

Create a custom deployment associated to a given pipeline.

Parameters

- **pipeline_name** (str) – Name of the pipeline.
- **deployment_name** (str) – Name of the deployment.
- **execution_rule** (str) – Execution rule of the deployment. Must be “endpoint” or “periodic”. For convenience, members of the enumeration `DEPLOYMENT_EXECUTION_RULES` could be used too.
- **deployment_mode** (str) – Mode of the deployment. Can be “elastic” or “low_latency”. Defaults to “elastic”. For convenience, members of the enumeration `DEPLOYMENT_MODES` could be used too.
- **schedule** (str, optional) – Schedule of the deployment. Only required if execution_rule is “periodic”. Must be a valid *cron expression* <<https://www.npmjs.com/package/croner>>. The deployment will be executed periodically according to this schedule. The schedule must follow this format: <minute> <hour> <day of month> <month> <day of week>. Note that the schedule is in UTC time zone. ‘*’ means all possible values. Here are some examples:
 - “0 0 * * *” will execute the deployment every day at midnight.
 - “0 0 5 * *” will execute the deployment every 5th day of the month at midnight.
- **inputs_mapping** (list of instances of `InputSource`) – List of input mappings, to map pipeline inputs to different sources (such as constant values, endpoint inputs, or environment variables). See `InputSource` for more details. For endpoint rules, if an input of the step in the pipeline is not explicitly mapped, it will be automatically mapped to an endpoint input with the same name. For periodic rules, all inputs of the step in the pipeline must be explicitly mapped.
- **outputs_mapping** (list of instances of `OutputDestination`) – List of output mappings, to map pipeline outputs to different destinations. See `OutputDestination` for more details. For endpoint rules, if an output of the step in the pipeline is not explicitly mapped, it will be automatically mapped to an endpoint output with the same name. For periodic rules, all outputs of the step in the pipeline must be explicitly mapped.
- **description** (str, optional) – Description of the deployment.

- **timeout_s** (int) – Maximum time (in seconds) to wait for the deployment to be ready. 3min (180s) by default, and at least 2min (120s).

Returns

Created deployment represented as a dict with the following keys:

- "name" (str): Name of the deployment.
- "endpoint_token" (str): Token of the endpoint used to trigger the deployment. Note that this token is only returned if execution_rule is "endpoint".
- "schedule" (str): Schedule of the deployment. Note that this schedule is only returned if execution_rule is "periodic".
- "human_readable_schedule" (str): Human readable schedule of the deployment. Note that this schedule is only returned if execution_rule is "periodic".

Return type

dict[str, str]

`CraftAiSdk.list_deployments()`

Get the list of all deployments.

Returns

List of deployments represented as dict with the following keys:

- "name" (str): Name of the deployment.
- "pipeline_name" (str): Name of the pipeline associated to the deployment.
- "version" (str): Version of the pipeline associated to the deployment.
- "execution_rule" (str): Execution rule of the deployment. Can be "endpoint", "run" or "periodic".
- "is_enabled" (bool): Whether the deployment is enabled.
- "created_at" (str): Date of creation of the deployment.

Return type

list of dict

`CraftAiSdk.get_deployment(deployment_name)`

Get information of a deployment.

Parameters

deployment_name (str) – Name of the deployment.

Returns

Deployment information represented as dict with the following keys:

- "name" (str): Name of the deployment.
- "mode" (str): The deployment mode. Can be "elastic" or "low_latency".
- "pipeline" (dict): Pipeline associated to the deployment represented as dict with the following keys:
 - "name" (str): Name of the pipeline.
- "inputs_mapping" (list of dict): List of inputs mapping represented as dict with the following keys:
 - "step_input_name" (str): Name of the step input.
 - "data_type" (str): Data type of the step input.

- "description" (str): Description of the step input.
- "constant_value" (str): Constant value of the step input. Note that this key is only returned if the step input is mapped to a constant value.
- "environment_variable_name" (str): Name of the environment variable. Note that this key is only returned if the step input is mapped to an environment variable.
- "endpoint_input_name" (str): Name of the endpoint input. Note that this key is only returned if the step input is mapped to an endpoint input.
- "is_null" (bool): Whether the step input is mapped to null. Note that this key is only returned if the step input is mapped to null.
- "datastore_path" (str): Datastore path of the step input. Note that this key is only returned if the step input is mapped to the datastore.
- "is_required" (bool): Whether the step input is required. Note that this key is only returned if the step input is required.
- "default_value" (str): Default value of the step input. Note that this key is only returned if the step input has a default value.
- "outputs_mapping" (list of dict): List of outputs mapping represented as dict with the following keys:
 - "step_output_name" (str): Name of the step output.
 - "data_type" (str): Data type of the step output.
 - "description" (str): Description of the step output.
 - "endpoint_output_name" (str): Name of the endpoint output. Note that this key is only returned if the step output is mapped to an endpoint output.
 - "is_null" (bool): Whether the step output is mapped to null. Note that this key is only returned if the step output is mapped to null.
 - "datastore_path" (str): Datastore path of the step output. Note that this key is only returned if the step output is mapped to the datastore.
- "endpoint_token" (str): Token of the endpoint. Note that this key is only returned if the deployment is an endpoint.
- "schedule" (str): Schedule of the deployment. Note that this key is only returned if the deployment is a periodic deployment.
- "human_readable_schedule" (str): Human readable schedule of the deployment. Note that this key is only returned if the deployment is a periodic deployment.
- "created_at" (str): Date of creation of the deployment.
- "created_by" (str): ID of the user who created the deployment.
- "updated_at" (str): Date of last update of the deployment.
- "updated_by" (str): ID of the user who last updated the deployment.
- "last_execution_id" (str): ID of the last execution of the deployment.
- "is_enabled" (bool): Whether the deployment is enabled.
- "description" (str): Description of the deployment.
- "execution_rule" (str): Execution rule of the deployment.

- "update_status" (str): The deployment status. Can be "creating", "updating", "success" or "failed".
- "pods" (list of dict): List of pods associated to the low latency deployment. Note that this key is only returned if the deployment is in low latency mode. Each pod is represented as dict with the following keys:
 - pod_id (str): ID of the pod.
 - status (str): Status of the pod.

Return type

dict

CraftAiSdk.delete_deployment(deployment_name)

Delete a deployment identified by its name.

Parameters**deployment_name** (str) – Name of the deployment.**Returns**

Deleted deployment represented as dict with the following keys:

- "name" (str): Name of the deployment.
- "execution_rule" (str): Execution rule of the deployment. Can be "endpoint", "run" or "periodic".

Return type

dict

```
class craft_ai_sdk.InputSource(step_input_name, endpoint_input_name=None,  
                               environment_variable_name=None, is_required=None,  
                               default_value=None, constant_value=None,  
                               is_null=None, datastore_path=None)
```

Class to specify to which source a step input should be mapped when creating a deployment (cf. [CraftAiSdk.create_deployment\(\)](#)). The different sources can be one of:

- endpoint_input_name (str): An endpoint input with the provided name.
- constant_value: A constant value.
- environment_variable_name: The value of the provided environment variable.
- is_null: Nothing.

If the execution rule of the deployment is endpoint and the input is directly mapped to an endpoint input, two more parameters can be specified:

- default_value
- is_required

Parameters

- **step_input_name** (str) – Name of the step input to be mapped.
- **endpoint_input_name** (str, optional) – Name of the endpoint input to which the input is mapped.
- **environment_variable_name** (str, optional) – Name of the environment variable to which the input is mapped.
- **constant_value** (Any, optional) – A constant value.
- **is_null** (True, optional) – If specified, the input is not provided any value at execution time.

- **datastore_path** (str, optional) – Path of the input file in the datastore. If you want to use a file from the datastore as input, this file will then be accessible as if you passed the file path as an argument to the step. The resulting input will be a dict with “*path*” as key and the file path as value. The file will be downloaded in the execution environment before the step is executed. You can then use the file as you would use any other file in the execution environment. Here is an example of how to use this feature in the step code:

```
def step_function(input):
    with open(input["path"]) as f:
        content = f.read()
        print(content)
```

- **default_value** (Any, optional) – This parameter could only be specified if the parameter *endpoint_input_name* is specified.
- **is_required** (bool, optional) – This parameter could only be specified if the parameter *endpoint_input_name* is specified. If set to *True*, the corresponding endpoint input should be provided at execution time.

```
class craft_ai_sdk.OutputDestination(step_output_name, endpoint_output_name=None,
                                     is_null=None, datastore_path=None)
```

Class to specify to which destination a step output should be mapped when creating a deployment (cf. [CraftAiSdk.create_deployment\(\)](#)). If the execution rule of the deployment is endpoint, an output could either be exposed as an output of the endpoint (via *endpoint_output_name* parameter) or not (via *is_null* parameter).

Parameters

- **step_output_name** (str) – Name of the step output to be mapped.
- **endpoint_output_name** (str, optional) – Name of the endpoint output to which the output is mapped.
- **is_null** (True, optional) – If specified, the output is not exposed as a deployment output.
- **datastore_path** (str, optional) – Path of the output file in the datastore. If you want to upload a file to the datastore as output, you can specify this parameter. The file will be uploaded to the datastore after the step is executed. In order to pass the file to be uploaded in the datastore, you will have to do the same as if you were passing a file as output. You will have to return a dict with “*path*” as key and the file path as value. The file will be uploaded to the datastore after the step is executed. Here is an example of how to use this feature in the step code:

```
def step_function():
    file_path = "path/to/file"
    with open(file_path, "w") as f:
        f.write("content")
    return {"output_file": {"path": file_path}}
```

You can also specify a dynamic path for the file to be uploaded by using one of the following patterns in your datastore path:

- {*execution_id*}: The execution id of the deployment.
- {*date*}: The date of the execution in truncated ISO 8601 (YYYYMMDD) format.
- {*date_time*}: The date of the execution in ISO 8601 (YYYY-MM-DD_hhmmss) format.

```
class craft_ai_sdk.DEPLOYMENT_EXECUTION_RULES(value)
```

Enumeration for deployments execution rules.

```
class craft_ai_sdk.DEPLOYMENT_MODES(value)
```

Enumeration for deployments modes.

2.5 Endpoint

```
CraftAiSdk.trigger_endpoint(endpoint_name, endpoint_token, inputs={},  
                             wait_for_results=True)
```

Trigger an endpoint.

Parameters

- **endpoint_name** (str) – Name of the endpoint.
- **endpoint_token** (str) – Token to access endpoint.
- **inputs** (dict, optional) – Dictionary of inputs to pass to the endpoint with input names as keys and corresponding values as values. For files, the value should be an instance of `io.IOBase`. For json, string, number, boolean and array inputs, the size of all values should be less than 0.06MB. Defaults to {}.
- **wait_for_results** (bool, optional) – Automatically call `retrieve_endpoint_results` and returns the execution result. Defaults to `True`.

Returns

Created pipeline execution represented as dict with the following keys:

- "execution_id" (str): ID of the execution. Note that this key is only returned if `wait_for_results` is `False`.
- "outputs" (dict): Dictionary of outputs of the pipeline with output names as keys and corresponding values as values. Note that this key is only returned if `wait_for_results` is `True`.

Return type

dict

```
CraftAiSdk.retrieve_endpoint_results(endpoint_name, execution_id, endpoint_token)
```

Get the results of an endpoint execution.

Parameters

- **endpoint_name** (str) – Name of the endpoint.
- **execution_id** (str) – ID of the execution returned by `trigger_endpoint`.
- **endpoint_token** (str) – Token to access endpoint.

Returns

Created pipeline execution represented as dict with the following keys:

- "outputs" (dict): Dictionary of outputs of the pipeline with output names as keys and corresponding values as values.

Return type

dict

`CraftAiSdk.generate_new_endpoint_token(endpoint_name)`

Generate a new endpoint token for an endpoint.

Parameters

endpoint_name (str) – Name of the endpoint.

Returns

New endpoint token represented as dict with the following keys:

- "endpoint_token" (str): New endpoint token.

Return type

dict[str, str]

2.6 Data store

`CraftAiSdk.upload_data_store_object(filepath_or_buffer, object_path_in_datastore)`

Upload a file as an object into the data store.

Parameters

- **filepath_or_buffer** (str, or file-like object) – String, path to the file to be uploaded ; or file-like object implementing a `read()` method (e.g. via builtin open function). The file object must be opened in binary mode, not text mode.
- **object_path_in_datastore** (str) – Destination of the uploaded file.

`CraftAiSdk.download_data_store_object(object_path_in_datastore, filepath_or_buffer)`

Download an object in the data store and save it into a file.

Parameters

- **object_path_in_datastore** (str) – Location of the object to download from the data store.
- **filepath_or_buffer** (str or file-like object) – String, filepath to save the file to ; or a file-like object implementing a `write()` method, (e.g. via builtin open function). The file object must be opened in binary mode, not text mode.

Returns

None

`CraftAiSdk.get_data_store_object_information(object_path_in_datastore)`

Get information about a single object in the data store.

Parameters

object_path_in_datastore (str) – Location of the object in the data store.

Returns

Object information, with the following keys:

- "path" (str): Location of the object in the data store.
- "last_modified" (str): The creation date or last modification date in ISO format.
- "size" (str): The size of the object.

Return type

dict

`CraftAiSdk.list_data_store_objects()`

Get the list of the objects stored in the data store.

Returns

List of objects in the data store represented as dict with the following keys:

- "path" (str): Location of the object in the data store.
- "last_modified" (str): The creation date or last modification date in ISO format.
- "size" (int): The size of the object in bytes.

Return type

list of dict

`CraftAiSdk.delete_data_store_object(object_path_in_datastore)`

Delete an object on the datastore.

Parameters

object_path_in_datastore (str) – Location of the object to be deleted in the data store.

Returns

Deleted object represented as dict with the following keys:

- path (str): Path of the deleted object.

Return type

dict

2.7 Environment Variables

`CraftAiSdk.create_or_update_environment_variable(environment_variable_name, environment_variable_value)`

Create or update an environment variable available for all pipelines executions.

Parameters

- **environment_variable_name** (str) – Name of the environment variable to create.
- **environment_variable_value** (str) – Value of the environment variable to create.

Returns

None

`CraftAiSdk.list_environment_variables()`

Get a list of all environments variables.

Returns

List of environment variable represented as dict with the following keys:

- name (str): Name of the environment variable.
- value (str): Value of the environment variable.

Return type

list of dict

`CraftAiSdk.delete_environment_variable(environment_variable_name)`

Delete the specified environment variable

Parameters

environment_variable_name (str) – Name of the environment variable to delete.

Returns

Deleted environment variable represented as dict with the following keys:

- **name** (str): Name of the environment variable.
- **value** (str): Value of the environment variable.

Return type

dict

2.8 Pipeline Metrics

`CraftAiSdk.record_metric_value(name, value)`

Create or update a pipeline metric. Note that this function can only be used inside a step code.

Parameters

- **name** (str) – Name of the metric to store.
- **value** (float) – Value of the metric to store.

Returns

None

`CraftAiSdk.record_list_metric_values(name, values)`

Add values to a pipeline metric list. Note that this function can only be used inside a step code.

Parameters

- **name** (str) – Name of the metric list to add values.
- **values** (list of float or float) – Values of the metric list to add.

Returns

None

`CraftAiSdk.get_metrics(name=None, pipeline_name=None, deployment_name=None, execution_id=None)`

Get a list of pipeline metrics. Note that only one of the parameters (pipeline_name, deployment_name, execution_id) can be set.

Parameters

- **name** (str, optional) – Name of the metric to retrieve.
- **pipeline_name** (str, optional) – Filter metrics by pipeline, defaults to all the pipelines.
- **deployment_name** (str, optional) – Filter metrics by deployment, defaults to all the deployments.
- **execution_id** (str, optional) – Filter metrics by execution, defaults to all the executions.

Returns

List of execution metrics as dict with the following keys:

- **name** (str): Name of the metric.
- **value** (float): Value of the metric.
- **created_at** (str): Date of the metric creation.
- **execution_id** (str): Name of the execution the metric belongs to.
- **deployment_name** (str): Name of the deployment the execution belongs to.
- **pipeline_name** (str): Name of the pipeline the execution belongs to.

Return type

list of dict

`CraftAiSdk.get_list_metrics(name=None, pipeline_name=None, deployment_name=None, execution_id=None)`

Get a list of pipeline metric lists. Note that only one of the parameters (`pipeline_name`, `deployment_name`, `execution_id`) can be set.

Parameters

- **name** (str, optional) – Name of the metric list to retrieve.
- **pipeline_name** (str, optional) – Filter metric lists by pipeline, defaults to all the pipelines.
- **deployment_name** (str, optional) – Filter metric lists by deployment, defaults to all the deployments.
- **execution_id** (str, optional) – Filter metric lists by execution, defaults to all the executions.

Returns

List of execution metric lists as dict with the following keys:

- **name** (str): Name of the metric.
- **value** (float): Value of the metric.
- **created_at** (str): Date of the metric creation.
- **execution_id** (str): Name of the execution the metric belongs to.
- **deployment_name** (str): Name of the deployment the execution belongs to.
- **pipeline_name** (str): Name of the pipeline the execution belongs to.

Return type

list of dict

2.9 Resource Metrics

`CraftAiSdk.get_resource_metrics(start_date, end_date, csv=False)`

Get resource metrics of the environment.

Parameters

- **start_date** (datetime.datetime) – The beginning of the period.
- **end_date** (datetime.datetime) – The end of the period.
- **csv** (bool) – If True, it will return a csv file as bytes.

Returns

If `csv` is `True`, it will return bytes. Otherwise: `dict`: The resource metrics, with the following keys:

- `additional_data` (`dict`): Additional data with the following keys:
 - `total_disk` (`int`): Total disk size in bytes.
 - `total_ram` (`int`): Total RAM size in bytes.
 - `total_vram` (`int`): Total VRAM size in bytes if there is a GPU.
- `metrics` (`dict`): The metrics of the environment with the following keys:
 - `cpu_usage` (`list of dict`): The CPU usage in percent.
 - `disk_usage` (`list of dict`): The disk usage in percent.
 - `ram_usage` (`list of dict`): The RAM usage in percent.
 - `vram_usage` (`list of dict`): The VRAM usage in percent if there is a GPU.
 - `gpu_usage` (`list of dict`): The GPU usage in percent if there is a GPU.
 - `network_input_usage` (`list of dict`): The network input usage in bytes.
 - `network_output_usage` (`list of dict`): The network output usage in bytes.

Each element of the lists is a `dict` with the following keys:

- `metric` (`dict`): Dictionary with the following key:
 - `worker` (`str`): The worker name.
- `values` (`list of list`): The values of the metrics in the following format: `[[timestamp, value], ...]`.

2.10 Users

`CraftAiSdk.get_user(user_id)`

Get information about a user.

Parameters

`user_id` (`str`) – The id of the user.

Returns

The user information, with the following keys:

- `id` (`str`): id of the user.
- `name` (`str`): Name of the user.
- `email` (`str`): Email of the user.

Return type

`dict`

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