

R package for Prevision.io

October 25, 2021

<code>create_connector</code>	<i>Create a new connector of a supported type (among: "SQL", "FTP", "SFTP", "S3", "GCP"). If <code>check_if_exist</code> is enabled, the function will check if a connector with the same name already exists. If yes, it will return a message and the information of the existing connector instead of creating a new one.</i>
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Description

Create a new connector of a supported type (among: "SQL", "FTP", "SFTP", "S3", "GCP"). If `check_if_exist` is enabled, the function will check if a connector with the same name already exists. If yes, it will return a message and the information of the existing connector instead of creating a new one.

Usage

```
create_connector(  
  project_id,  
  type,  
  name,  
  host,  
  port,  
  username,  
  password,  
  google_credentials = NULL,  
  check_if_exist = FALSE  
)
```

Arguments

<code>project_id</code>	id of the project, can be obtained with <code>get_projects()</code> .
<code>type</code>	connector type.
<code>name</code>	connector name.
<code>host</code>	connector host.
<code>port</code>	connector port.
<code>username</code>	connector username.

password connector password.
 google_credentials google credentials JSON (for GCP only).
 check_if_exist boolean (FALSE by default). If TRUE, makes extra checks to see if a connector with the same name is already existing.

Value

list - parsed content of the connector.

create_dataframe_from_dataset
Create a dataframe from a dataset_id.

Description

Create a dataframe from a dataset_id.

Usage

```
create_dataframe_from_dataset(dataset_id, path = getwd(), is_folder = FALSE)
```

Arguments

dataset_id dataset id.
 path path (without / at the end) were to write the downloaded dataset.
 is_folder TRUE if it's a folder dataset, FALSE (by default) otherwise.

Value

data.frame - a R dataframe matching the dataset.

create_dataset_embedding
Create a dataset embedding from a dataset_id.

Description

Create a dataset embedding from a dataset_id.

Usage

```
create_dataset_embedding(dataset_id)
```

Arguments

dataset_id dataset id.

Value

integer - 200 on success.

`create_dataset_from_dataframe`*Upload dataset from data frame.*

Description

Upload dataset from data frame.

Usage

```
create_dataset_from_dataframe(project_id, dataset_name, dataframe, zip = FALSE)
```

Arguments

<code>project_id</code>	id of the project, can be obtained with <code>get_projects()</code> .
<code>dataset_name</code>	given name of the dataset on the platform.
<code>dataframe</code>	<code>data.frame</code> to upload.
<code>zip</code>	is the temp file zipped before sending it to Prevision.io (default = FALSE).

Value

list - parsed content of the dataset.

`create_dataset_from_datasource`*Create a dataset from an existing datasource.*

Description

Create a dataset from an existing datasource.

Usage

```
create_dataset_from_datasource(project_id, dataset_name, datasource_id)
```

Arguments

<code>project_id</code>	id of the project, can be obtained with <code>get_projects()</code> .
<code>dataset_name</code>	given name of the dataset on the platform.
<code>datasource_id</code>	datasource id.

Value

list - parsed content of the dataset.

create_dataset_from_file

Upload dataset from file name.

Description

Upload dataset from file name.

Usage

```
create_dataset_from_file(
    project_id,
    dataset_name,
    file,
    separator = ",",
    decimal = "."
)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
dataset_name	given name of the dataset on the platform.
file	path to the dataset.
separator	column separator in the file (default: ",")
decimal	decimal separator in the file (default: ".")

Value

list - parsed content of the dataset.

create_datasource

Create a new datasource If check_if_exist is enabled, the function will check if a datasource with the same name already exists. If yes, it will return a message and the information of the existing datasource instead of creating a new one.

Description

Create a new datasource If check_if_exist is enabled, the function will check if a datasource with the same name already exists. If yes, it will return a message and the information of the existing datasource instead of creating a new one.

Usage

```

create_datasource(
    project_id,
    connector_id,
    name,
    path = "",
    database = "",
    table = "",
    bucket = "",
    request = "",
    check_if_exist = FALSE
)

```

Arguments

project_id	id of the project, can be obtained with get_projects().
connector_id	connector_id linked to the datasource.
name	datasource name.
path	datasource path (for SFTP & FTP connector).
database	datasource database (for SQL connector).
table	datasource table (for SQL connector).
bucket	datasource bucket (for S3 connector).
request	datasource request (for SQLconnector).
check_if_exist	boolean (FALSE by default). If TRUE, makes extra checks to see if a datasource with the same name is already existing.

Value

list - parsed content of the datasource.

create_deployment_api_key

Create a new API key for a deployed model.

Description

Create a new API key for a deployed model.

Usage

```
create_deployment_api_key(deployment_id)
```

Arguments

deployment_id	id of the deployment to create an API key on, can be obtained with get_deployments().
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Value

list - API key information.

create_deployment_app *[BETA]* Create a new deployment for an application.

Description

[BETA] Create a new deployment for an application.

Usage

```
create_deployment_app(
    project_id,
    name,
    git_url,
    git_branch,
    type,
    broker,
    app_cpu = 1,
    app_ram = "128Mi",
    app_replica_count = 1,
    env_vars = list(),
    access_type = "fine_grained",
    description = NULL
)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
name	name of the deployment.
git_url	url of the git repository than contains the app to be deployed.
git_branch	branch of the git repository than contains the app to be deployed.
type	type of language in which the app is written among "r", "python" or "node".
broker	broker of the git repository (gitlab, github) that contains the application.
app_cpu	number of CPU that is allocated for the application deployment (1 default, 2 or 4)
app_ram	quantity of RAM that is allocated for the application deployment (128Mi default, 256Mi, 512Mi, 1Gi, 2Gi, 4Gi or 8Gi)
app_replica_count	number of replica allocated for the application deployment (1 default, 2, 3, 4, 5, 6, 7, 8, 9 or 10)
env_vars	list of environment variables (optional).
access_type	type of access of the deployment among "fine_grained" (project defined, default), "private" (instance) or "public" (everyone).
description	description of the deployment (optional).

Value

list - parsed content of the deployment.

`create_deployment_model`*[BETA] Create a new deployment for a model.*

Description

[BETA] Create a new deployment for a model.

Usage

```
create_deployment_model(  
    project_id,  
    name,  
    experiment_id,  
    main_model_experiment_version_id,  
    challenger_model_experiment_version_id = NULL,  
    access_type = c("fine_grained", "private", "public"),  
    description = NULL,  
    main_model_id,  
    challenger_model_id = NULL  
)
```

Arguments

<code>project_id</code>	id of the project, can be obtained with <code>get_projects()</code> .
<code>name</code>	name of the deployment.
<code>experiment_id</code>	id of the experiment to deploy, can be obtained with <code>get_experiment_id_from_name()</code> .
<code>main_model_experiment_version_id</code>	id of the experiment_version to deploy, can be obtained with <code>get_experiment_version_id()</code> .
<code>challenger_model_experiment_version_id</code>	id of the challenger experiment_version to deploy, can be obtained with <code>get_experiment_version_id()</code> .
<code>access_type</code>	type of access of the deployment among "fine_grained" (project defined, default), "private" (instance) or "public" (everyone).
<code>description</code>	description of the deployment.
<code>main_model_id</code>	id of the model to deploy
<code>challenger_model_id</code>	id of the challenger model to deploy

Value

list - parsed content of the deployment.

`create_deployment_predictions`

Create predictions on a deployed model using a dataset.

Description

Create predictions on a deployed model using a dataset.

Usage

```
create_deployment_predictions(deployment_id, dataset_id)
```

Arguments

`deployment_id` id of the deployment, can be obtained with `get_deployments()`.

`dataset_id` id of the dataset to predict, can be obtained with `get_dataset_id_from_name()`.

Value

integer - 200 on success.

`create_experiment`

Create a new experiment. If `check_if_exist` is enabled, the function will check if an experiment with the same name already exists. If yes, it will return a message and the information of the existing experiment instead of creating a new one.

Description

Create a new experiment. If `check_if_exist` is enabled, the function will check if an experiment with the same name already exists. If yes, it will return a message and the information of the existing experiment instead of creating a new one.

Usage

```
create_experiment(  
    project_id,  
    name,  
    provider,  
    data_type,  
    training_type,  
    check_if_exist = FALSE  
)
```


Arguments

project_id	id of the project in which we create the experiment.
name	name of the experiment.
provider	provider of the experiment ("prevision-auto-ml" or "external")
data_type	type of data ("tabular", "images" or "timeseries").
training_type	type of the training you want to achieve ("regression", "classification", "multi-classification", "clustering", "object-detection" or "text-similarity").
check_if_exist	boolean (FALSE by default). If TRUE, makes extra checks to see if an experiment with the same name is already existing.

Value

list - experiment information.

create_experiment_version

Create a new version of an existing experiment.

Description

Create a new version of an existing experiment.

Usage

```
create_experiment_version(
  experiment_id,
  dataset_id = NULL,
  target_column = NULL,
  holdout_dataset_id = NULL,
  id_column = NULL,
  drop_list = NULL,
  profile = NULL,
  experiment_description = NULL,
  metric = NULL,
  fold_column = NULL,
  normal_models = NULL,
  lite_models = NULL,
  simple_models = NULL,
  with_blend = NULL,
  weight_column = NULL,
  features_engineering_selected_list = NULL,
  features_selection_count = NULL,
  features_selection_time = NULL,
  folder_dataset_id = NULL,
  filename_column = NULL,
  ymin = NULL,
  ymax = NULL,
  xmin = NULL,
  xmax = NULL,
```

```

time_column = NULL,
start_dw = NULL,
end_dw = NULL,
start_fw = NULL,
end_fw = NULL,
group_list = NULL,
apriori_list = NULL,
content_column = NULL,
queries_dataset_id = NULL,
queries_dataset_content_column = NULL,
queries_dataset_id_column = NULL,
queries_dataset_matching_id_description_column = NULL,
top_k = NULL,
lang = NULL,
models_params = NULL,
name = NULL,
onnx_file = NULL,
yaml_file = NULL
)

```

Arguments

experiment_id id of the experiment that will host the new version.

dataset_id id of the dataset used for the training phase.

target_column name of the TARGET column.

holdout_dataset_id
id of the holdout dataset.

id_column name of the id column.

drop_list list of names of features to drop.

profile chosen profil among "quick", "normal", "advanced".

experiment_description
experiment description.

metric name of the metric to optimise.

fold_column name of the fold column.

normal_models list of (normal) models to select with full FE & hyperparameters search (among "LR", "RF", "ET", "XGB", "LGB", "NN", "CB").

lite_models list of (lite) models to select with lite FE & default hyperparameters (among "LR", "RF", "ET", "XGB", "LGB", "NN", "CB", "NBC").

simple_models list of simple models to select (among "LR", "DT").

with_blend boolean, do we allow to include blend in the modelisation.

weight_column name of the weight columns.

features_engineering_selected_list
list of feature engineering to select (among "Counter", "Date", "freq", "text_tfidf", "text_word2vec", "text_embedding", "tenc", "poly", "pca", "kmean").

features_selection_count
number of features to keep after the feature selection process.

features_selection_time
time budget in minutes of the feature selection process.

folder_dataset_id	id of the dataset folder (images).
filename_column	name of the file name path (images).
ymin	name of the column matching the lower y value of the image (object detection).
ymax	name of the column matching the higher y value of the image (object detection).
xmin	name of the column matching the lower x value of the image (object detection).
xmax	name of the column matching the higher x value of the image (object detection).
time_column	name of column containing the timestamp (time series).
start_dw	value of the start of derivative window (time series), should be a strict negative integer.
end_dw	value of the end of derivative window (time series), should be a negative integer greater than start_dw.
start_fw	value of the start of forecast window (time series), should be a strict positive integer.
end_fw	value of the end of forecast window (time series), should be a strict positive integer greater than start_fw.
group_list	list of name of feature that describes groups (time series).
apriori_list	list of name of feature that are a priori (time series).
content_column	content column name (text-similarity).
queries_dataset_id	id of the dataset containing queries (text-similarity).
queries_dataset_content_column	name of the column containing queries in the query dataset (text-similarity).
queries_dataset_id_column	name of the ID column in the query dataset (text-similarity).
queries_dataset_matching_id_description_column	name of the column matching id in the description dataset (text-similarity).
top_k	top k individual to find (text-similarity).
lang	lang of the text (text-similarity).
models_params	parameters of the model (text-similarity).
name	name of the external model (external model).
onnx_file	path to the onnx file (external model).
yaml_file	path to the yaml file (external model).

Value

list - experiment information.

create_export	<i>Export data using an existing exporter and the resource to export</i>
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Description

Export data using an existing exporter and the resource to export

Usage

```
create_export(exporter_id, type, dataset_id = NULL, prediction_id = NULL)
```

Arguments

exporter_id	id of the exporter, can be obtained with get_exporters().
type	type of data to export among \"dataset\", \"validation-prediction\" or \"deployment-prediction\"
dataset_id	id of the dataset to export (only for type == \"dataset\")
prediction_id	id of the prediction to export (only for type == \"validation_prediction\" or type == \"deployment-prediction\")

Value

list - parsed content of the export.

create_exporter	<i>Create a new exporter</i>
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Description

Create a new exporter

Usage

```
create_exporter(
  project_id,
  connector_id,
  name,
  description = "",
  filepath = "",
  file_write_mode = "timestamp",
  database = "",
  table = "",
  database_write_mode = "append",
  bucket = ""
)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
connector_id	connector_id linked to the exporter.
name	exporter name.
description	description of the exporter.
filepath	exporter path (for SFTP & FTP connector).
file_write_mode	writing type when exporting a file (for SFT & FTP connector, among \"times-tamp\", \"safe\" or \"replace\")
database	exporter database (for SQL connector).
table	exporter table (for SQL connector).
database_write_mode	writing type when exporting data within a database (for SQL connector, among \"append\" or \"replace\").
bucket	exporter bucket (for S3 connector).

Value

list - parsed content of the exporter.

create_folder	<i>Upload folder from a local file.</i>
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Description

Upload folder from a local file.

Usage

```
create_folder(project_id, folder_name, file)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
folder_name	given name of the folder on the platform.
file	path to the folder.

Value

list - parsed content of the folder.

create_pipeline	<i>[BETA] Create a new pipeline of a supported type among "component", "template", "run".</i>
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Description

[BETA] Create a new pipeline of a supported type among "component", "template", "run".

Usage

```
create_pipeline(
    project_id,
    type,
    name,
    git_url = NULL,
    git_branch = NULL,
    repository_name = NULL,
    broker = NULL,
    config_dataset_id = NULL,
    nodes = NULL,
    pipeline_template_id = NULL,
    pipeline_parameters = NULL
)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
type	type of the pipeline to be retrieved among "component", "template", "run".
name	name of the pipeline.
git_url	url of the git repository than contains the component.
git_branch	branch of the git repository than contains the component.
repository_name	name of the git repository that contains the component.
broker	broker of the git repository that contains the component.
config_dataset_id	only for templates.
nodes	list, only for templates.
pipeline_template_id	id of the pipeline template to add for a run.
pipeline_parameters	list of parameters for the run.

Value

list - parsed content of the pipeline.

create_pipeline_trigger
[BETA] Trigger an existing pipeline run.

Description

[BETA] Trigger an existing pipeline run.

Usage

```
create_pipeline_trigger(pipeline_id)
```

Arguments

pipeline_id id of the pipeline run to trigger, can be obtained with get_pipelines().

Value

integer - 200 on success.

create_prediction *Create a prediction on a specified experiment_version*

Description

Create a prediction on a specified experiment_version

Usage

```
create_prediction(  
  experiment_version_id,  
  dataset_id = NULL,  
  folder_dataset_id = NULL,  
  confidence = FALSE,  
  best_single = FALSE,  
  model_id = NULL,  
  queries_dataset_id = NULL,  
  queries_dataset_content_column = NULL,  
  queries_dataset_id_column = NULL,  
  queries_dataset_matching_id_description_column = NULL,  
  top_k = NULL  
)
```

Arguments

experiment_version_id	id of the experiment_version, can be obtained with get_experiment_version_id().
dataset_id	id of the dataset to start the prediction on, can be obtained with get_datasets().
folder_dataset_id	id of the folder dataset to start prediction on, can be obtained with get_folders(). Only usefull for images use cases.
confidence	boolean. If enable, confidence interval will be added to predictions.
best_single	boolean. If enable, best single model (non blend) will be used for making predictions other wise, best model will be used unless if model_id is fed.
model_id	id of the model to start the prediction on. If provided, it will overwrite the "best single" params.
queries_dataset_id	id of the dataset containing queries (text-similarity).
queries_dataset_content_column	name of the content column in the queries dataset (text-similarity).
queries_dataset_id_column	name of the id column in the queries dataset (text-similarity).
queries_dataset_matching_id_description_column	name of the column matching the id (text-similarity).
top_k	number of class to retrieve (text-similarity).

Value

list - parsed prediction information.

create_project	<i>Create a new project. If check_if_exist is enabled, the function will check if a project with the same name already exists. If yes, it will return a message and the information of the existing project instead of creating a new one.</i>
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Description

Create a new project. If check_if_exist is enabled, the function will check if a project with the same name already exists. If yes, it will return a message and the information of the existing project instead of creating a new one.

Usage

```
create_project(
    name,
    description = NULL,
    color = "#a748f5",
    check_if_exist = FALSE
)
```


Arguments

name	name of the project.
description	description of the project.
color	color of the project among <code>\#4876be\</code> , <code>\#4ab6eb\</code> , <code>\#49cf7d\</code> , <code>\#dc8218\</code> , <code>\#ecba35\</code> , <code>\#f45b69\</code> , <code>\#a748f5\</code> , <code>\#b34ca2\</code> or <code>\#2fe6d0\</code> (<code>\#a748f5</code> by default).
check_if_exist	boolean (FALSE by default). If TRUE, makes extra checks to see if a project with the same name is already existing.

Value

list - information of the created project.

create_project_user *Add user in and existing project.*

Description

Add user in and existing project.

Usage

```
create_project_user(project_id, user_mail, user_role)
```

Arguments

project_id	id of the project, can be obtained with <code>get_projects()</code> .
user_mail	email of the user to be add.
user_role	role to grand to the user among "admin", "contributor", "viewer" or "end_user".

Value

list - information of project's users.

delete_connector *Delete an existing connector.*

Description

Delete an existing connector.

Usage

```
delete_connector(connector_id)
```

Arguments

connector_id	id of the connector to be deleted, can be obtained with <code>get_connectors()</code> .
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Value

integer - 200 on success.

delete_dataset	<i>Delete an existing dataset.</i>
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Description

Delete an existing dataset.

Usage

```
delete_dataset(dataset_id)
```

Arguments

dataset_id id of the dataset, can be obtained with get_datasets().

Value

integer - 204 on success.

delete_datasource	<i>Delete a datasource</i>
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Description

Delete a datasource

Usage

```
delete_datasource(datasource_id)
```

Arguments

datasource_id id of the datasource to be deleted, can be obtained with get_datasources().

Value

integer - 200 on success.

`delete_deployment` *Delete an existing deployment*

Description

Delete an existing deployment

Usage

`delete_deployment(deployment_id)`

Arguments

`deployment_id` id of the deployment, can be obtained with `get_deployments()`.

Value

integer - 204 on success.

`delete_experiment` *Delete a experiment on the platform.*

Description

Delete a experiment on the platform.

Usage

`delete_experiment(experiment_id)`

Arguments

`experiment_id` id of the experiment, can be obtained with `get_experiments()`.

Value

integer - 204 on success.

delete_exporter	<i>Delete an exporter</i>
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Description

Delete an exporter

Usage

```
delete_exporter(exporter_id)
```

Arguments

exporter_id id of the exporter to be deleted, can be obtained with get_exporters().

Value

integer - 204 on success.

delete_folder	<i>Delete an existing folder.</i>
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Description

Delete an existing folder.

Usage

```
delete_folder(folder_id)
```

Arguments

folder_id id of the folder to be deleted.

Value

integer - 200 on success.

delete_pipeline	<i>Delete an existing pipeline</i>
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Description

Delete an existing pipeline

Usage

```
delete_pipeline(pipeline_id, type)
```

Arguments

pipeline_id	id of the pipeline to be retrieved, can be obtained with get_pipelines().
type	type of the pipeline to be retrieved among "component", "template", "run".

Value

integer - 204 on success.

delete_prediction	<i>Delete a prediction.</i>
-------------------	-----------------------------

Description

Delete a prediction.

Usage

```
delete_prediction(prediction_id)
```

Arguments

prediction_id	id of the prediction to be deleted, can be obtained with get_experiment_version_predictions().
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Value

integer - 204 on success.

list of predictions of experiment_id.

delete_project	<i>Delete an existing project.</i>
----------------	------------------------------------

Description

Delete an existing project.

Usage

```
delete_project(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

integer - 204 on success.

delete_project_user	<i>Delete user in and existing project.</i>
---------------------	---

Description

Delete user in and existing project.

Usage

```
delete_project_user(project_id, user_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

user_id user_id of the user to be delete, can be obtained with get_project_users().

Value

integer - 200 on success.

get_best_model_id	<i>Get the model_id that provide the best predictive performance given experiment_version_id. If include_blend is false, it will return the model_id from the best "non blended" model.</i>
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Description

Get the model_id that provide the best predictive performance given experiment_version_id. If include_blend is false, it will return the model_id from the best "non blended" model.

Usage

```
get_best_model_id(experiment_version_id, include_blend = TRUE)
```

Arguments

experiment_version_id	id of the experiment_version, can be obtained with get_experiment_version_id().
include_blend	boolean, indicating if you want to retrieve the best model among blended models too.

Value

character - model_id.

get_connector_id_from_name	<i>Get a connector_id from a connector_name for a given project_id. If duplicated name, the first connector_id that match it is retrieved.</i>
----------------------------	--

Description

Get a connector_id from a connector_name for a given project_id. If duplicated name, the first connector_id that match it is retrieved.

Usage

```
get_connector_id_from_name(project_id, connector_name)
```

Arguments

project_id	id of the project, can be obtained with get_projects(project_id).
connector_name	name of the connector we are searching its id from.

Value

character - id of the connector if found.

get_connector_info	<i>Get information about connector from its id.</i>
--------------------	---

Description

Get information about connector from its id.

Usage

```
get_connector_info(connector_id)
```

Arguments

connector_id id of the connector to be retrieved, can be obtained with get_connectors().

Value

list - parsed content of the connector.

get_connectors	<i>Get information of all connectors available for a given project_id.</i>
----------------	--

Description

Get information of all connectors available for a given project_id.

Usage

```
get_connectors(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - parsed content of all connectors for the supplied project_id.

`get_dataset_embedding` *Get a dataset embedding from a dataset_id.*

Description

Get a dataset embedding from a dataset_id.

Usage

```
get_dataset_embedding(dataset_id)
```

Arguments

`dataset_id` dataset id.

Value

integer - 200 on success.

`get_dataset_head` *Show the head of a dataset from its id.*

Description

Show the head of a dataset from its id.

Usage

```
get_dataset_head(dataset_id)
```

Arguments

`dataset_id` id of the dataset, can be obtained with `get_datasets()`.

Value

data.frame - head of the dataset.

get_dataset_id_from_name

Get a dataset_id from a dataset_name. If duplicated name, the first dataset_id that match it is retrieved.

Description

Get a dataset_id from a dataset_name. If duplicated name, the first dataset_id that match it is retrieved.

Usage

```
get_dataset_id_from_name(project_id, dataset_name)
```

Arguments

project_id id of the project, can be obtained with get_projects().

dataset_name name of the dataset we are searching its id from. Can be obtained with get_datasets().

Value

character - id of the dataset if found.

get_dataset_info

Get a dataset from its id.

Description

Get a dataset from its id.

Usage

```
get_dataset_info(dataset_id)
```

Arguments

dataset_id id of the dataset, can be obtained with get_datasets().

Value

list - parsed content of the dataset.

get_datasets	<i>Get information of all datasets available for a given project_id.</i>
--------------	--

Description

Get information of all datasets available for a given project_id.

Usage

```
get_datasets(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - parsed content of all datasets for the supplied project_id.

```
get_datasource_id_from_name
```

Get a datasource_id from a datasource_name If duplicated name, the first datasource_id that match it is retrieved

Description

Get a datasource_id from a datasource_name If duplicated name, the first datasource_id that match it is retrieved

Usage

```
get_datasource_id_from_name(project_id, datasource_name)
```

Arguments

project_id id of the project, can be obtained with get_projects().

datasource_name

name of the datasource we are searching its id from. Can be obtained with get_datasources().

Value

character - id of the datasource if found.

get_datasource_info *Get a datasource from its id.*

Description

Get a datasource from its id.

Usage

```
get_datasource_info(datasource_id)
```

Arguments

datasource_id id of the data_sources to be retrieved, can be obtained with get_datasources().

Value

list - parsed content of the data_sources.

get_datasources *Get information of all data sources available for a given project_id.*

Description

Get information of all data sources available for a given project_id.

Usage

```
get_datasources(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - parsed content of all data_sources for the supplied project_id.

`get_deployment_api_keys`

Get API keys for a deployed model.

Description

Get API keys for a deployed model.

Usage

`get_deployment_api_keys(deployment_id)`

Arguments

`deployment_id` id of the deployment to get API keys, can be obtained with `get_deployments()`.

Value

data.frame - API keys available for `deployment_id`.

`get_deployment_app_logs`

Get logs from a deployed app.

Description

Get logs from a deployed app.

Usage

`get_deployment_app_logs(deployment_id, log_type)`

Arguments

`deployment_id` id of the deployment to get the log, can be obtained with `get_deployments()`.

`log_type` type of logs we want to get among "build", "deploy" or "run".

Value

list - logs from deployed apps.

get_deployment_id_from_name

Get a deployment_id from a name and type for a given project_id. If duplicated name, the first deployment_id that match it is retrieved.

Description

Get a deployment_id from a name and type for a given project_id. If duplicated name, the first deployment_id that match it is retrieved.

Usage

```
get_deployment_id_from_name(project_id, name, type)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
name	name of the deployment we are searching its id from.
type	type of the deployment to be retrieved among "model" or "app".

Value

character - id of the connector if found.

get_deployment_info *Get information about a deployment from its id.*

Description

Get information about a deployment from its id.

Usage

```
get_deployment_info(deployment_id)
```

Arguments

deployment_id	id of the deployment to be retrieved, can be obtained with get_deployments().
---------------	---

Value

list - parsed content of the deployment.

`get_deployment_prediction_info`

Get information related to predictions of a prediction_id.

Description

Get information related to predictions of a prediction_id.

Usage

`get_deployment_prediction_info(prediction_id)`

Arguments

`prediction_id` id of the prediction returned by `create_deployment_predictions` or that can be obtained with `get_deployment_predictions()`.

Value

list - prediction information for a deployed model.

`get_deployment_predictions`

Get listing of predictions related to a deployment_id.

Description

Get listing of predictions related to a deployment_id.

Usage

`get_deployment_predictions(deployment_id)`

Arguments

`deployment_id` id of the deployment, can be obtained with `get_deployments()`.

Value

list - predictions available for a deployed model.

get_deployment_usage	<i>Get usage (calls, errors and response time) of the last version of a deployed model.</i>
----------------------	---

Description

Get usage (calls, errors and response time) of the last version of a deployed model.

Usage

```
get_deployment_usage(deployment_id, usage_type)
```

Arguments

deployment_id	id of the deployment to get usage, can be obtained with get_deployments().
usage_type	type of usage to get, among "calls", "errors", "response_time".

Value

list - plotly object.

get_deployments	<i>Get information of all deployments of a given type available for a given project_id.</i>
-----------------	---

Description

Get information of all deployments of a given type available for a given project_id.

Usage

```
get_deployments(project_id, type)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
type	type of the deployment to retrieve among "model" or "app".

Value

list - parsed content of all deployments of the given type for the supplied project_id.

`get_experiment_id_from_name`

Get a experiment_id from a experiment_name If duplicated name, the first experiment_id that match it is retrieved.

Description

Get a experiment_id from a experiment_name If duplicated name, the first experiment_id that match it is retrieved.

Usage

```
get_experiment_id_from_name(project_id, experiment_name)
```

Arguments

`project_id` id of the project, can be obtained with `get_projects()`.
`experiment_name` name of the experiment we are searching its id from. Can be obtained with `get_experiments()`.

Value

character - id matching the `experiment_name` if found.

`get_experiment_info` *Get a experiment from its experiment_id.*

Description

Get a experiment from its `experiment_id`.

Usage

```
get_experiment_info(experiment_id)
```

Arguments

`experiment_id` id of the experiment, can be obtained with `get_experiments()`.

Value

list - parsed content of the experiment.

get_experiment_version_features

Get features information related to a experiment_version_id.

Description

Get features information related to a experiment_version_id.

Usage

```
get_experiment_version_features(experiment_version_id)
```

Arguments

experiment_version_id

id of the experiment_version, can be obtained with get_experiment_version_id().

Value

list - parsed content of the experiment_version features information.

get_experiment_version_id

Get a experiment version id from a experiment_id and its version number.

Description

Get a experiment version id from a experiment_id and its version number.

Usage

```
get_experiment_version_id(experiment_id, version_number = 1)
```

Arguments

experiment_id id of the experiment, can be obtained with get_experiments().

version_number number of the version of the experiment. 1 by default

Value

character - experiment version id.

`get_experiment_version_info`

Get a experiment_version info from its experiment_version_id

Description

Get a experiment_version info from its experiment_version_id

Usage

`get_experiment_version_info(experiment_version_id)`

Arguments

`experiment_version_id`

id of the experiment_version, can be obtained with `get_experiment_version_id()`.

Value

list - parsed content of the experiment_version.

`get_experiment_version_models`

Get a model list related to a experiment_version_id.

Description

Get a model list related to a experiment_version_id.

Usage

`get_experiment_version_models(experiment_version_id)`

Arguments

`experiment_version_id`

id of the experiment_version, can be obtained with `get_experiment_version_id()`.

Value

list - parsed content of models attached to experiment_version_id.

get_experiment_version_predictions

Get a list of prediction from a experiment_version_id.

Description

Get a list of prediction from a experiment_version_id.

Usage

```
get_experiment_version_predictions(  
    experiment_version_id,  
    generating_type = "user"  
)
```

Arguments

experiment_version_id

id of the experiment_version, can be obtained with get_experiment_version_id().

generating_type

can be "user" (= user predictions) or "auto" (= hold out predictions).

Value

list - parsed prediction list items.

get_experiments

Get information of all experiments available for a given project_id.

Description

Get information of all experiments available for a given project_id.

Usage

```
get_experiments(project_id)
```

Arguments

project_id

id of the project, can be obtained with get_projects().

Value

list - parsed content of all experiments for the supplied project_id.

get_exporter_exports *Get all exports done from an exporter_id*

Description

Get all exports done from an exporter_id

Usage

get_exporter_exports(exporter_id)

Arguments

exporter_id id of the exporter to retrieve information, can be obtained with get_exporters().

Value

list - list of exports of the supplied exporter_id.

get_exporter_id_from_name

Get a exporter_id from a exporter_name. If duplicated name, the first exporter_id that match it is retrieved

Description

Get a exporter_id from a exporter_name. If duplicated name, the first exporter_id that match it is retrieved

Usage

get_exporter_id_from_name(project_id, exporter_name)

Arguments

project_id id of the project, can be obtained with get_projects().

exporter_name name of the exporter we are searching its id from. Can be obtained with get_exporters().

Value

character - id of the exporter if found.

get_exporter_info	<i>Get an exporter from its id.</i>
-------------------	-------------------------------------

Description

Get an exporter from its id.

Usage

```
get_exporter_info(exporter_id)
```

Arguments

exporter_id id of the exporter to be retrieved, can be obtained with get_exporters().

Value

list - parsed content of the exporter.

get_exporters	<i>Get information of all exporters available for a given project_id.</i>
---------------	---

Description

Get information of all exporters available for a given project_id.

Usage

```
get_exporters(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - parsed content of all exporters for the supplied project_id.

get_features_infos	<i>Get information of a given feature related to a experiment_version_id.</i>
--------------------	---

Description

Get information of a given feature related to a experiment_version_id.

Usage

```
get_features_infos(experiment_version_id, feature_name)
```

Arguments

experiment_version_id
id of the experiment_version, can be obtained with get_experiment_version_id().

feature_name
name of the feature to retrieve information.

Value

list - parsed content of the specific feature.

get_folder	<i>Get a folder from its id.</i>
------------	----------------------------------

Description

Get a folder from its id.

Usage

```
get_folder(folder_id)
```

Arguments

folder_id
id of the image folder, can be obtained with get_folders().

Value

list - parsed content of the folder.

get_folder_id_from_name

Get a folder_id from a folder_name. If duplicated name, the first folder_id that match it is retrieved.

Description

Get a folder_id from a folder_name. If duplicated name, the first folder_id that match it is retrieved.

Usage

```
get_folder_id_from_name(project_id, folder_name)
```

Arguments

project_id id of the project, can be obtained with get_projects().
folder_name name of the folder we are searching its id from. Can be obtained with get_folders().

Value

character - id of the folder if found.

get_folders

Get information of all image folders available for a given project_id.

Description

Get information of all image folders available for a given project_id.

Usage

```
get_folders(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - parsed content of all folders.

get_model_cv	<i>Get the cross validation file from a specific model.</i>
--------------	---

Description

Get the cross validation file from a specific model.

Usage

```
get_model_cv(model_id)
```

Arguments

model_id id of the model to get the CV, can be obtained with get_experiment_version_models().

Value

data.frame - cross validation data coming from model_id.

get_model_feature_importance	<i>Get feature importance corresponding to a model_id.</i>
------------------------------	--

Description

Get feature importance corresponding to a model_id.

Usage

```
get_model_feature_importance(model_id, mode = "raw")
```

Arguments

model_id id of the model, can be obtained with get_experiment_models().
mode character indicating the type of feature importance among "raw" (default) or "engineered".

Value

data.frame - dataset of the model's feature importance.

get_model_hyperparameters

Get hyperparameters corresponding to a model_id.

Description

Get hyperparameters corresponding to a model_id.

Usage

```
get_model_hyperparameters(model_id)
```

Arguments

model_id id of the model, can be obtained with experimentModels(experiment_id).

Value

list - parsed content of the model's hyperparameters.

get_model_infos

Get model information corresponding to a model_id.

Description

Get model information corresponding to a model_id.

Usage

```
get_model_infos(model_id)
```

Arguments

model_id id of the model, can be obtained with get_experiment_models().

Value

list - parsed content of the model.

get_pipeline_id_from_name

Get a pipeline_id from a pipeline_name and type for a given project_id. If duplicated name, the first pipeline_id that match it is retrieved.

Description

Get a pipeline_id from a pipeline_name and type for a given project_id. If duplicated name, the first pipeline_id that match it is retrieved.

Usage

```
get_pipeline_id_from_name(project_id, name, type)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
name	name of the pipeline we are searching its id from.
type	type of the pipeline to be retrieved among "component", "template", "run".

Value

character - id of the connector if found.

get_pipeline_info *Get information about a pipeline from its id and its type.*

Description

Get information about a pipeline from its id and its type.

Usage

```
get_pipeline_info(pipeline_id, type)
```

Arguments

pipeline_id	id of the pipeline to be retrieved, can be obtained with get_pipelines().
type	type of the pipeline to be retrieved among "component", "template", "run".

Value

list - parsed content of the pipeline.

get_pipelines	<i>Get information of all pipelines of a given type available for a given project_id.</i>
---------------	---

Description

Get information of all pipelines of a given type available for a given project_id.

Usage

```
get_pipelines(project_id, type)
```

Arguments

project_id	id of the project, can be obtained with get_projects().
type	type of the pipeline to retrieve among "component", "template", or "run".

Value

list - parsed content of all pipelines of the given type for the supplied project_id.

get_prediction	<i>Get a specific prediction from a prediction_id. Wait up until time_out is reached and wait wait_time between each retry.</i>
----------------	---

Description

Get a specific prediction from a prediction_id. Wait up until time_out is reached and wait wait_time between each retry.

Usage

```
get_prediction(prediction_id, prediction_type, time_out = 3600, wait_time = 10)
```

Arguments

prediction_id	id of the prediction to be retrieved, can be obtained with get_experiment_version_predictions().
prediction_type	type of prediction among "validation" (not deployed model) and "deployment" (deployed model).
time_out	maximum number of seconds to wait for the prediction. 3 600 by default.
wait_time	number of seconds to wait between each retry. 10 by default.

Value

data.frame - predictions coming from prediction_id.

get_prediction_infos *Get a information about a prediction_id.*

Description

Get a information about a prediction_id.

Usage

```
get_prediction_infos(prediction_id)
```

Arguments

prediction_id id of the prediction to be retrieved, can be obtained with get_experiment_version_predictions().

Value

list - parsed prediction information.

get_project_id_from_name

Get a project_id from a project_name If duplicated name, the first project_id that match it is retrieved.

Description

Get a project_id from a project_name If duplicated name, the first project_id that match it is retrieved.

Usage

```
get_project_id_from_name(project_name)
```

Arguments

project_name name of the project we are searching its id from. Can be obtained with get_projects().

Value

character - project_id of the project_name if found.

get_project_info *Get a project from its project_id.*

Description

Get a project from its project_id.

Usage

```
get_project_info(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - information of the project.

get_project_users *Get users from a project.*

Description

Get users from a project.

Usage

```
get_project_users(project_id)
```

Arguments

project_id id of the project, can be obtained with get_projects().

Value

list - information of project's users.

get_projects *Retrieves all projects.*

Description

Retrieves all projects.

Usage

```
get_projects()
```

Value

list - list of existing projects.

 helper_cv_classif_analysis

Get metrics on a CV file retrieved by Prevision.io for a binary classification use case

Description

Get metrics on a CV file retrieved by Prevision.io for a binary classification use case

Usage

```
helper_cv_classif_analysis(actual, predicted, fold, thresh = NULL, step = 1000)
```

Arguments

actual	target coming from the cross Validation dataframe retrieved by Prevision.io
predicted	prediction coming from the cross Validation dataframe retrieved by Prevision.io
fold	fold number coming from the cross Validation dataframe retrieved by Prevision.io
thresh	threshold to use. If not provided optimal threshold given F1 score will be computed
step	number of iteration done to find optimal thresh (1000 by default = 0.1% resolution per fold)

Value

data.frame - metrics computed between actual and predicted vectors.

 helper_drift_analysis *[BETA] Return a data.frame that contains features, a boolean indicating if the feature may have a different distribution between the submitted datasets (if p-value < threshold), their exact p-value and the test used to compute it.*

Description

[BETA] Return a data.frame that contains features, a boolean indicating if the feature may have a different distribution between the submitted datasets (if p-value < threshold), their exact p-value and the test used to compute it.

Usage

```
helper_drift_analysis(dataset_1, dataset_2, p_value = 0.05, features = NULL)
```

Arguments

dataset_1	the first data set
dataset_2	the second data set
p_value	a p-value that will be the decision criteria for deciding if a feature is suspicious 5% by default
features	a vector of features names that should be tested. If NULL, only the intersection of the names() will be kept

Value

vector - a vector of suspicious features.

helper_optimal_prediction

[BETA] Compute the optimal prediction for each rows in a data frame, for a given model, a list of actionable features and a number of samples for each features to be tested.

Description

[BETA] Compute the optimal prediction for each rows in a data frame, for a given model, a list of actionable features and a number of samples for each features to be tested.

Usage

```
helper_optimal_prediction(
  project_id,
  experiment_id,
  model_id,
  df,
  actionable_features,
  nb_sample,
  maximize,
  zip = FALSE,
  version = 1
)
```

Arguments

project_id	id of the project containing the use case.
experiment_id	id of the experiment to be predicted on.
model_id	id of the model to be predicted on.
df	a data frame to be predicted on.
actionable_features	a list of actionable_features features contained in the names of the data frame.
nb_sample	a vector of number of sample for each actionable_features features.
maximize	a boolean indicating if we maximize or minimize the predicted target.
zip	a boolean indicating if the data frame to predict should be zipped prior sending to the instance.
version	version of the use case we want to make the prediction on.

Value

data.frame - optimal vector and the prediction associated with for each rows in the original data frame.

helper_plot_classif_analysis

Plot RECALL, PRECISION & F1 SCORE versus top n predictions for a binary classification use case

Description

Plot RECALL, PRECISION & F1 SCORE versus top n predictions for a binary classification use case

Usage

```
helper_plot_classif_analysis(actual, predicted, top, compute_every_n = 1)
```

Arguments

actual	true value (0 or 1 only)
predicted	prediction vector (probability)
top	top individual to analyse
compute_every_n	compute indicators every n individuals (1 by default)

Value

data.frame - metrics computed between actual and predicted vectors.

pause_experiment_version

Pause a running experiment_version on the platform.

Description

Pause a running experiment_version on the platform.

Usage

```
pause_experiment_version(experiment_version_id)
```

Arguments

experiment_version_id	id of the experiment_version, can be obtained with get_experiment_version_id().
-----------------------	---

Value

integer - 200 on success.

pio_download	<i>Download resources according specific parameters.</i>
--------------	--

Description

Download resources according specific parameters.

Usage

```
pio_download(endpoint, tempFile)
```

Arguments

endpoint	end of the url of the API call.
tempFile	temporary file to download.

Value

list - response from the request.

pio_init	<i>Initialization of the connection to your instance Prevision.io.</i>
----------	--

Description

Initialization of the connection to your instance Prevision.io.

Usage

```
pio_init(token, url)
```

Arguments

token	your master token, can be found on your instance on the "API KEY" page.
url	the url of your instance.

Value

list - url and token needed for connecting to the Prevision.io environment.

Examples

```
## Not run: pio_init('eyJhbGciOiJIUz', 'https://xxx.prevision.io')
```

pio_list_to_df	<i>Convert a list returned from APIs to a dataframe. Only working for consistent list (same naming and number of columns).</i>
----------------	--

Description

Convert a list returned from APIs to a dataframe. Only working for consistent list (same naming and number of columns).

Usage

```
pio_list_to_df(list)
```

Arguments

list named list coming from an API call.

Value

data.frame - cast a consistent list to a data.frame.

pio_request	<i>Request the platform. Thanks to an endpoint, the url and the API, you can create request.</i>
-------------	--

Description

Request the platform. Thanks to an endpoint, the url and the API, you can create request.

Usage

```
pio_request(endpoint, method, data = NULL, upload = FALSE)
```

Arguments

endpoint end of the url of the API call.
method the method needed according the API (Available: POST, GET, DELETE).
data object to upload when using method POST.
upload used parameter when uploading dataset (for encoding in API call), don't use it.

Value

list - response from the request.

Examples

```
## Not run: pio_request(paste0('/jobs/', experiment$jobId), DELETE)
```

resume_experiment_version

Resume a paused experiment_version on the platform.

Description

Resume a paused experiment_version on the platform.

Usage

```
resume_experiment_version(experiment_version_id)
```

Arguments

experiment_version_id

id of the experiment_version, can be obtained with get_experiment_version_id().

Value

integer - 200 on success.

stop_experiment_version

Stop a running or paused experiment_version on the platform.

Description

Stop a running or paused experiment_version on the platform.

Usage

```
stop_experiment_version(experiment_version_id)
```

Arguments

experiment_version_id

id of the experiment_version, can be obtained with get_experiment_version_id().

Value

integer - 200 on success.

test_connector	<i>Test an existing connector.</i>
----------------	------------------------------------

Description

Test an existing connector.

Usage

```
test_connector(connector_id)
```

Arguments

connector_id id of the connector to be tested, can be obtained with get_connectors().

Value

integer - 200 on success.

test_datasource	<i>Test a datasource</i>
-----------------	--------------------------

Description

Test a datasource

Usage

```
test_datasource(datasource_id)
```

Arguments

datasource_id id of the datasource to be tested, can be obtained with get_datasources().

Value

integer - 200 on success.

test_deployment_type *Check if a type of a deployment is supported*

Description

Check if a type of a deployment is supported

Usage

```
test_deployment_type(type)
```

Arguments

type type of the deployment among "model" or "app".

Value

no return value, called for side effects.

test_pipeline_type *Check if a type of a pipeline is supported*

Description

Check if a type of a pipeline is supported

Usage

```
test_pipeline_type(type)
```

Arguments

type type of the pipeline among "component", "template", "run".

Value

no return value, called for side effects.

update_experiment_version_description

Update the description of a given experiment_version_id.

Description

Update the description of a given experiment_version_id.

Usage

```
update_experiment_version_description(experiment_version_id, description = "")
```

Arguments

experiment_version_id

id of the experiment_version, can be obtained with get_experiment_version_id().

description Description of the experiment.

Value

integer - 200 on success.

update_project_user_role

Update user role in and existing project.

Description

Update user role in and existing project.

Usage

```
update_project_user_role(project_id, user_id, user_role)
```

Arguments

project_id id of the project, can be obtained with get_projects().

user_id user_id of the user to be delete, can be obtained with get_project_users().

user_role role to grand to the user among "admin", "contributor", "viewer" and "end_user".

Value

list - information of project's users.

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