

Package ‘previsionio’

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Description For working with the 'Prevision.io' AI model management platform's API <<https://prevision.io/>>.

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Suggests testthat

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| | |
|------------------|---|
| create_connector | <i>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.</i> |
|------------------|---|

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

| | |
|--------------------|---|
| project_id | id of the project, can be obtained with get_projects(). |
| type | connector type. |
| name | connector name. |
| host | connector host. |
| port | connector port. |
| username | 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_contact_point *Create a new contact point of a supported type (among: "email", "slack").*

Description

Create a new contact point of a supported type (among: "email", "slack").

Usage

```
create_contact_point(  
  project_id,  
  type,  
  name,  
  addresses = NULL,  
  webhook_url = NULL  
)
```

Arguments

| | |
|-------------|---|
| project_id | id of the project, can be obtained with get_projects(). |
| type | contact point type among "email" or "slack". |
| name | contact point name. |
| addresses | contact point addresses. |
| webhook_url | contact point webhook_url. |

Value

list - parsed content of the contact point.

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)
```

Arguments

| | |
|------------|-------------|
| dataset_id | dataset id. |
|------------|-------------|

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

project_id id of the project, can be obtained with get_projects().
dataset_name given name of the dataset on the platform.
dataframe data.frame to upload.
zip 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

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

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().

Value

list - API key information.

create_deployment_model
Create a new deployment for a model.

Description

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"),
  type_violation_policy = c("best_effort"),
  description = NULL,
  main_model_id,
  challenger_model_id = NULL
)

```

Arguments

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

`name` name of the deployment.

`experiment_id` id of the experiment to deploy, can be obtained with `get_experiment_id_from_name()`.

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

`challenger_model_experiment_version_id` id of the challenger experiment_version to deploy, can be obtained with `get_experiment_version_id()`.

`access_type` type of access of the deployment among "fine_grained" (project defined, default), "private" (instance) or "public" (everyone).

`type_violation_policy` handling of type violation when making predictions among "best_effort" (default) or "strict" (stops the prediction if there is a type violation).

`description` description of the deployment.

`main_model_id` id of the model to deploy

`challenger_model_id` 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 | <i>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.</i> |
|-------------------|--|

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).

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

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> |
|-----------------|------------------------------|

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 \"timestamp\", \"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> |
|---------------|---|

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_trigger
Trigger an existing pipeline run.

Description

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> |
|----------------|--|

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 get_connectors().

Value

integer - 200 on success.

delete_contact_point *Delete an existing contact_point*

Description

Delete an existing contact_point

Usage

```
delete_contact_point(contact_point_id)
```

Arguments

contact_point_id
 id of the contact point to be deleted, can be obtained with get_contact_points().

Value

integer - 204 on success.

| | |
|----------------|------------------------------------|
| delete_dataset | <i>Delete an existing dataset.</i> |
|----------------|------------------------------------|

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> |
|-------------------|----------------------------|

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 *Delete an exporter*

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 *Delete an existing folder.*

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> |
|-----------------|------------------------------------|

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(). |
|---------------|--|

Value

integer - 204 on success.

list of predictions of experiment_id.

delete_project *Delete an existing project.*

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 *Delete user in and existing project.*

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.

| | |
|--------------------------------|---|
| <code>get_best_model_id</code> | <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> |
|--------------------------------|---|

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

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

Value

character - model_id.

| | |
|-----------------------------|--|
| <code>get_connectors</code> | <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

| | |
|-------------------------|---|
| <code>project_id</code> | id of the project, can be obtained with <code>get_projects()</code> . |
|-------------------------|---|

Value

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

`get_connector_id_from_name`

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.

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` *Get information about connector from its id.*

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_contact_points` *Get information of all contact points available for a given project_id.*

Description

Get information of all contact points available for a given `project_id`.

Usage

```
get_contact_points(project_id)
```

Arguments

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

Value

list - parsed content of all contact points for the supplied `project_id`.

`get_contact_point_info`
Get a contact point information from its contact_point_id.

Description

Get a contact point information from its `contact_point_id`.

Usage

```
get_contact_point_info(contact_point_id)
```

Arguments

`contact_point_id`
id of the contact point, can be obtained with `get_contact_points()`.

Value

list - information of the contact point.

get_datasets *Get information of all datasets available for a given project_id.*

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_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_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_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_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_deployment_alerts | <i>Get information of all alerts related to a deployment_id.</i> |
|-----------------------|--|

Description

Get information of all alerts related to a deployment_id.

Usage

```
get_deployment_alerts(deployment_id)
```

Arguments

| | |
|---------------|--|
| deployment_id | id of the project, can be obtained with get_deployments(). |
|---------------|--|

Value

list - parsed content of all alerts for the supplied deployment_id

get_deployment_alert_id_from_name

Get a deployment_alert_id from a name and type for a given deployment_id.

Description

Get a deployment_alert_id from a name and type for a given deployment_id.

Usage

```
get_deployment_alert_id_from_name(deployment_id, name)
```

Arguments

deployment_id id of the deployment, can be obtained with get_deployments().
name name of the deployment_alert we are searching its id from.

Value

character - id of the deployment_alert if found.

get_deployment_alert_info

Get information about a deployment_alert for a given deployed model.

Description

Get information about a deployment_alert for a given deployed model.

Usage

```
get_deployment_alert_info(deployment_id, deployment_alert_id)
```

Arguments

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

Value

list - parsed content of the deployment_alert.

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 deployment 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_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_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_usage` *Get usage (calls, errors and response time) of the last version of a deployed model.*

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_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_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_exporters`*Get information of all exporters available for a given project_id.*

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_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 *Get an exporter from its id.*

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_features_infos *Get information of a given feature related to a experiment_version_id.*

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_folders | <i>Get information of all image folders available for a given project_id.</i> |
|-------------|---|

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_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_model_cv

Get the cross validation file from a specific model.

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`*Get feature importance corresponding to a model_id.*

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 <code>get_experiment_models()</code> . |
| 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 <code>experimentModels(experiment_id)</code> . |
|----------|--|

Value

list - parsed content of the model's hyperparameters.

| | |
|-----------------|---|
| get_model_infos | <i>Get model information corresponding to a model_id.</i> |
|-----------------|---|

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_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_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_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 | <i>Get a information about a prediction_id.</i> |
|----------------------|---|

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_projects | <i>Retrieves all projects.</i> |
|--------------|--------------------------------|

Description

Retrieves all projects.

Usage

```
get_projects()
```

Value

list - list of existing projects.

| |
|--------------------------|
| 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.

 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

Download resources according specific parameters.

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 | <i>Resume a paused experiment_version on the platform.</i> |
|---------------------------|--|

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`*Test an existing connector.*

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_contact_point *Test an existing contact point*

Description

Test an existing contact point

Usage

```
test_contact_point(contact_point_id)
```

Arguments

contact_point_id
id of the contact point to be tested, can be obtained with get_contact_points().

Value

integer - 200 on success.

test_datasource *Test a datasource*

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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