

API Reference

# TAO Toolkit API

API Version: v5.0.0

TAO Toolkit API document

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# API

## 1. DATASET

Endpoints related to Dataset

### 1.1 GET /api/v1/user/{user\_id}/dataset

#### List Datasets

Returns the list of Datasets

#### REQUEST

##### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
skip	integer	Optional skip for pagination
size	integer	Optional size for pagination
sort	enum ALLOWED: date-descending, date-ascending, name-descending, name-ascending	Optional sort
name	string	Optional name filter
type	enum ALLOWED: object_detection, semantic_segmentation, image_classification	Optional type filter

#### RESPONSE

STATUS CODE - 200: Returned list of Datasets

##### RESPONSE MODEL - application/json

```
[{
  id string
  jobs [{
    id string
    action string
    result {
      eta string
      kpi [{
        metric string
        values {
        }
      }]
    }
    epoch integer
  }
}]
```

```

stats [{
  Array of object:
    value string
    metric string
}]
cur_iter integer
graphical [{
  Array of object:
    units string
    x_max integer
    x_min integer
    y_max number
    y_min number
    metric string
    values {
    }
}]
max_epoch integer
categorical [{
  Array of object:
    metric string
    category_wise_values [{
      Array of object:
        value number
        category string
    }]
}]
automl_result [{
  Array of object:
    value number
    metric string
}]
time_per_iter string
time_per_epoch string
detailed_status {
  date string
  time string
  status string
  message string
}
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
type enum ALLOWED:object_detection, semantic_segmentation,
image_classification, instance_segmentation,
character_recognition, bpnnet, fpenet,
action_recognition, pointpillars, pose_classification,
ml_recog, ocdnet, ocrnet, optical_inspection,
re_identification
format enum ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco,
lprnet, default, custom, classification_pyt
actions [string]

```

```

    version      string
    created_on   string
    description   string
    last_modified string
  }
}
```

## 1.2 POST /api/v1/user/{user\_id}/dataset

### Create new Dataset

Returns the new Dataset

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID

#### REQUEST BODY - application/json

```

{
  logo      string
  name      string
  type      enum    ALLOWED:object_detection, semantic_segmentation,
                    image_classification, instance_segmentation,
                    character_recognition, bpnet, fpenet, action_recognition,
                    pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
                    optical_inspection, re_identification
  format    enum    ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                    default, custom, classification_py
  version   string
  description string
}
```

### RESPONSE

STATUS CODE - 201: Retuned the new Dataset

#### RESPONSE MODEL - application/json

```

{
  id      string
  jobs [{
    Array of object:
    id      string
    action  string
    result {
      eta    string
      kpi [{
        Array of object:
        metric string
        values {
        }
      }]
    }
    epoch    integer
    stats [{
      Array of object:
      value  string
    }
  ]
}
```

```

    metric string
  }}
  cur_iter integer
  graphical [{
    Array of object:
    units string
    x_max integer
    x_min integer
    y_max number
    y_min number
    metric string
    values {
    }
  }]
  max_epoch integer
  categorical [{
    Array of object:
    metric string
    category_wise_values [{
      Array of object:
      value number
      category string
    }]
  }]
  automl_result [{
    Array of object:
    value number
    metric string
  }]
  time_per_iter string
  time_per_epoch string
  detailed_status {
    date string
    time string
    status string
    message string
  }
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}}
logo string
name string
type enum ALLOWED:object_detection, semantic_segmentation,
image_classification, instance_segmentation,
character_recognition, bpnnet, fpenet, action_recognition,
pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
optical_inspection, re_identification
format enum ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
default, custom, classification_pyt
actions [string]
version string
created_on string
description string
last_modified string

```

```
}
```

STATUS CODE - 400: Bad request, see reply body for details

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

### 1.3 GET /api/v1/user/{user\_id}/dataset/{dataset\_id}

#### Retrieve Dataset

Returns the Dataset

#### REQUEST

##### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset to return

#### RESPONSE

STATUS CODE - 200: Returned Dataset

RESPONSE MODEL - application/json

```
{
  id string
  jobs [{
    Array of object:
    id string
    action string
    result {
      eta string
      kpi [{
        Array of object:
        metric string
        values {
        }
      }]
    }
    epoch integer
    stats [{
      Array of object:
      value string
      metric string
    }]
    cur_iter integer
    graphical [{
      Array of object:
      units string
      x_max integer
      x_min integer
      y_max number
      y_min number
    }]
  }]
```

```

        metric string
        values {
        }
    }]
    max_epoch integer
    categorical [{
    Array of object:
        metric string
        category_wise_values [{
        Array of object:
            value number
            category string
        }]
    }]
    automl_result [{
    Array of object:
        value number
        metric string
    }]
    time_per_iter string
    time_per_epoch string
    detailed_status {
        date string
        time string
        status string
        message string
    }
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
type enum ALLOWED:object_detection, semantic_segmentation,
image_classification, instance_segmentation,
character_recognition, bpnet, fpenet, action_recognition,
pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
optical_inspection, re_identification
format enum ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
default, custom, classification_pyt
actions [string]
version string
created_on string
description string
last_modified string
}

```

**STATUS CODE - 404:** User or Dataset not found

**RESPONSE MODEL - application/json**

```

{
    error_code integer
    error_desc string
}

```



## 1.4 PUT /api/v1/user/{user\_id}/dataset/{dataset\_id}

### Update Dataset

Returns the updated Dataset

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset to update

#### REQUEST BODY - application/json

```
{
  logo          string
  name          string
  type          enum    ALLOWED:object_detection, semantic_segmentation,
                        image_classification, instance_segmentation,
                        character_recognition, bpnet, fpenet, action_recognition,
                        pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
                        optical_inspection, re_identification
  format        enum    ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                        default, custom, classification_pyt
  version       string
  description    string
}
```

### RESPONSE

STATUS CODE - 200: Returned the updated Dataset

#### RESPONSE MODEL - application/json

```
{
  id            string
  jobs [{
    Array of object:
    id          string
    action      string
    result {
      eta       string
      kpi [{
        Array of object:
        metric string
        values {
        }
      }]
    }
    epoch       integer
    stats [{
      Array of object:
      value    string
      metric   string
    }]
    cur_iter    integer
    graphical [{
      Array of object:
      units    string
    }]
```

```

        x_max integer
        x_min integer
        y_max number
        y_min number
        metric string
        values {
        }
    }}
    max_epoch integer
    categorical [{
    Array of object:
        metric string
        category_wise_values [{
        Array of object:
            value number
            category string
        }]
    }]
    automl_result [{
    Array of object:
        value number
        metric string
    }]
    time_per_iter string
    time_per_epoch string
    detailed_status {
        date string
        time string
        status string
        message string
    }
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
type enum ALLOWED:object_detection, semantic_segmentation,
image_classification, instance_segmentation,
character_recognition, bpnet, fpenet, action_recognition,
pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
optical_inspection, re_identification
format enum ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
default, custom, classification_pyt
actions [string]
version string
created_on string
description string
last_modified string
}

```

**STATUS CODE - 400:** Bad request, see reply body for details

**RESPONSE MODEL - application/json**

```

{
    error_code integer
}

```

```
    error_desc string
}
```

STATUS CODE - 404: User or Dataset not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

## 1.5 DELETE /api/v1/user/{user\_id}/dataset/{dataset\_id}

### Delete Dataset

Cancels all related running jobs and returns the deleted Dataset

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset to delete

### RESPONSE

STATUS CODE - 200: Deleted Dataset

RESPONSE MODEL - application/json

```
{
  id string
  jobs [{
    Array of object:
    id string
    action string
    result {
      eta string
      kpi [{
        Array of object:
        metric string
        values {
        }
      }]
      epoch integer
      stats [{
        Array of object:
        value string
        metric string
      }]
      cur_iter integer
      graphical [{
        Array of object:
        units string
        x_max integer
        x_min integer
        y_max number
      }]
    }
  ]
}
```

```

        y_min    number
        metric    string
        values {
        }
    }]
    max_epoch      integer
    categorical [{
    Array of object:
        metric      string
        category_wise_values [{
        Array of object:
            value      number
            category    string
        }]
    }]
    automl_result [{
    Array of object:
        value    number
        metric    string
    }]
    time_per_iter    string
    time_per_epoch    string
    detailed_status {
        date    string
        time    string
        status    string
        message    string
    }
}
status          enum    ALLOWED:Done, Running, Error, Pending
parent_id        string
created_on        string
last_modified    string
}]
logo            string
name            string
type            enum    ALLOWED:object_detection, semantic_segmentation,
                        image_classification, instance_segmentation,
                        character_recognition, bpnet, fpenet, action_recognition,
                        pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
                        optical_inspection, re_identification
format          enum    ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                        default, custom, classification_pyt
actions         [string]
version         string
created_on      string
description     string
last_modified   string
}

```

**STATUS CODE - 400:** Bad request, see reply body for details

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc  string
}

```

STATUS CODE - 404: User or Dataset not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

1.6 PATCH /api/v1/user/{user\_id}/dataset/{dataset\_id}

Partial update Dataset

Returns the updated Dataset

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset to update

REQUEST BODY - application/json

```
{
  logo          string
  name          string
  type          enum    ALLOWED:object_detection, semantic_segmentation,
                        image_classification, instance_segmentation,
                        character_recognition, bpnet, fpenet, action_recognition,
                        pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
                        optical_inspection, re_identification
  format        enum    ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                        default, custom, classification_pyt
  version       string
  description    string
}
```

RESPONSE

STATUS CODE - 200: Returned the updated Dataset

RESPONSE MODEL - application/json

```
{
  id            string
  jobs [{
    Array of object:
    id          string
    action      string
    result {
      eta       string
      kpi [{
        Array of object:
        metric  string
        values {
        }
      }]
    }
  }]
  epoch        integer
}
```

```

stats [{
  Array of object:
    value string
    metric string
}]
cur_iter integer
graphical [{
  Array of object:
    units string
    x_max integer
    x_min integer
    y_max number
    y_min number
    metric string
    values {
    }
}]
max_epoch integer
categorical [{
  Array of object:
    metric string
    category_wise_values [{
      Array of object:
        value number
        category string
    }]
}]
automl_result [{
  Array of object:
    value number
    metric string
}]
time_per_iter string
time_per_epoch string
detailed_status {
  date string
  time string
  status string
  message string
}
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
type enum ALLOWED:object_detection, semantic_segmentation,
image_classification, instance_segmentation,
character_recognition, bpnnet, fpenet, action_recognition,
pointpillars, pose_classification, ml_recog, ocdnet, ocrnet,
optical_inspection, re_identification
format enum ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
default, custom, classification_pyt
actions [string]
version string

```

```

    created_on    string
    description   string
    last_modified string
  }

```

**STATUS CODE - 400:** Bad request, see reply body for details

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

**STATUS CODE - 404:** User or Dataset not found

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

## 1.7 GET /api/v1/user/{user\_id}/dataset/{dataset\_id}/job

### List Jobs for Dataset

Returns the list of Jobs

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID for Dataset

#### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
skip	integer	Optional skip for pagination
size	integer	Optional size for pagination
sort	enum	Optional sort
		ALLOWED: date-descending, date-ascending

### RESPONSE

**STATUS CODE - 200:** Returned list of Jobs

**RESPONSE MODEL - application/json**

```

[ {
  Array of object:
    id          string
    action      string
    result {
      eta       string
      kpi [ {
        Array of object:

```

```

        metric string
        values {
        }
    ]]
    epoch integer
    stats [{
    Array of object:
        value string
        metric string
    }]
    cur_iter integer
    graphical [{
    Array of object:
        units string
        x_max integer
        x_min integer
        y_max number
        y_min number
        metric string
        values {
        }
    }]
    max_epoch integer
    categorical [{
    Array of object:
        metric string
        category_wise_values [{
        Array of object:
            value number
            category string
        }]
    }]
    automl_result [{
    Array of object:
        value number
        metric string
    }]
    time_per_iter string
    time_per_epoch string
    detailed_status {
        date string
        time string
        status string
        message string
    }
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]

```

**STATUS CODE - 404:** User or Dataset not found

**RESPONSE MODEL - application/json**

```

{
    error_code integer
    error_desc string
}

```



}

## 1.8 POST /api/v1/user/{user\_id}/dataset/{dataset\_id}/job

### Run Dataset Jobs

Asynchronously starts a list of Dataset Actions and returns corresponding Job IDs

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID for Dataset

#### REQUEST BODY - application/json

```
[{  
  Array of object:  
    job      string  
    actions  [string]  
}]
```

### RESPONSE

**STATUS CODE - 201:** Returned the list of Job IDs corresponding to requested Dataset Actions

#### RESPONSE MODEL - application/json

```
[string]
```

**STATUS CODE - 404:** User or Dataset not found

#### RESPONSE MODEL - application/json

```
{  
  error_code integer  
  error_desc string  
}
```

## 1.9 POST /api/v1/user/{user\_id}/dataset/{dataset\_id}/upload

### Upload Dataset

Upload training and testing data

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset

#### FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
message	string	

## RESPONSE

STATUS CODE - 201: Upload sucessful

STATUS CODE - 400: Bad request, see reply body for details

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

STATUS CODE - 404: User or Dataset not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

### 1.10 GET /api/v1/user/{user\_id}/dataset/{dataset\_id}/job/{job\_id}

#### Retrieve Job for Dataset

Returns the Job

## REQUEST

### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset
*job_id	uuid	Job ID

## RESPONSE

STATUS CODE - 200: Returned Job

RESPONSE MODEL - application/json

```
{
  id string
  action string
  result {
    eta string
    kpi [{
      Array of object:
      metric string
      values {
      }
    }]
    epoch integer
    stats [{
      Array of object:
      value string
      metric string
    }]
  }
}
```

```

    }}
    cur_iter          integer
    graphical [{
      Array of object:
        units  string
        x_max  integer
        x_min  integer
        y_max  number
        y_min  number
        metric string
        values {
        }
      }]
    max_epoch          integer
    categorical [{
      Array of object:
        metric      string
        category_wise_values [{
          Array of object:
            value      number
            category    string
          }]
        }]
    automl_result [{
      Array of object:
        value  number
        metric string
      }]
    time_per_iter  string
    time_per_epoch string
    detailed_status {
      date      string
      time      string
      status    string
      message   string
    }
  }
  status          enum    ALLOWED:Done, Running, Error, Pending
  parent_id       string
  created_on      string
  last_modified   string
}

```

**STATUS CODE - 404:** User, Dataset or Job not found

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

## 1.11 DELETE /api/v1/user/{user\_id}/dataset/{dataset\_id}/job/{job\_id}

### Delete Dataset Job

delete Dataset Job

### REQUEST

## PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID for Dataset
*job_id	uuid	ID for Job

## RESPONSE

**STATUS CODE - 200:** Successfully requested deletion of specified Job ID

**STATUS CODE - 400:** Bad request, see reply body for details

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

**STATUS CODE - 404:** User, Dataset or Job not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

## 1.12 GET /api/v1/user/{user\_id}/dataset/{dataset\_id}/specs/{action}

### Retrieve Dataset Specs

Returns the saved Dataset Specs for a given action

## REQUEST

### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset
*action	string	Action name

## RESPONSE

**STATUS CODE - 200:** Returned the saved Dataset Specs for specified action

**RESPONSE MODEL - application/json**

```
{
}
```

**STATUS CODE - 404:** User, Dataset or Action not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
}
```

```
    error_desc string
}
```

---

### 1.13 PUT /api/v1/user/{user\_id}/dataset/{dataset\_id}/specs/{action}

#### Update Dataset Specs

Update the Dataset Specs for a given action

#### REQUEST

##### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset
*action	string	Action name

REQUEST BODY - application/json

```
{
}
```

#### RESPONSE

STATUS CODE - 200: Returned the updated Dataset Specs for specified action

RESPONSE MODEL - application/json

```
{
}
```

STATUS CODE - 400: Invalid specs

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

STATUS CODE - 404: User, Dataset or Action not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

---

### 1.14 POST /api/v1/user/{user\_id}/dataset/{dataset\_id}/specs/{action}

#### Save Dataset Specs

Save the Dataset Specs for a given action

#### REQUEST

##### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset
*action	string	Action name

REQUEST BODY - application/json

```
{
}
```

## RESPONSE

STATUS CODE - 201: Returned the saved Dataset Specs for specified action

RESPONSE MODEL - application/json

```
{
}
```

STATUS CODE - 400: Invalid specs

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

STATUS CODE - 404: User, Dataset or Action not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

## 1.15 POST /api/v1/user/{user\_id}/dataset/{dataset\_id}/job/{job\_id}/cancel

Cancel Dataset Job

## REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID for Dataset
*job_id	uuid	ID for Job

## RESPONSE

STATUS CODE - 200: Successfully requested cancelation of specified Job ID (asynchronous)

STATUS CODE - 404: User, Dataset or Job not found

RESPONSE MODEL - application/json

```
{
```

```
    error_code integer
    error_desc string
}
```

---

## 1.16 GET /api/v1/user/{user\_id}/dataset/{dataset\_id}/job/{job\_id}/download

### Download Job Artifacts

Download the Artifacts produced by a given job

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID of Dataset
*job_id	uuid	Job ID

### RESPONSE

**STATUS CODE - 200:** Returned Job Artifacts

**RESPONSE MODEL - application/octet-stream**

string

**STATUS CODE - 404:** User, Model or Job not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

---

## 1.17 GET /api/v1/user/{user\_id}/dataset/{dataset\_id}/specs/{action}/schema

### Retrieve Specs schema

Returns the Specs schema for a given action

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*dataset_id	uuid	ID for Dataset
*action	string	Action name

### RESPONSE

**STATUS CODE - 200:** Returned the Specs schema for given action

**RESPONSE MODEL - application/json**

```
{
```

```
}
```

**STATUS CODE - 404:** User, Dataset or Action not found

**RESPONSE MODEL - application/json**

```
{  
  error_code integer  
  error_desc string  
}
```

---



## 2. MODEL

Endpoints related to Model

### 2.1 GET /api/v1/user/{user\_id}/model

#### List Models

Returns the list of Models

#### REQUEST

##### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
skip	integer	Optional skip for pagination
size	integer	Optional size for pagination
sort	enum ALLOWED: date-descending, date-ascending, name-descending, name-ascending	Optional sort
name	string	Optional name filter
arch	enum ALLOWED: detectnet_v2	Optional network architecture filter
read_only	boolean	Optional read_only filter

#### RESPONSE

STATUS CODE - 200: Returned the list of Models

##### RESPONSE MODEL - application/json

```
[{
  id string
  ptm [string]
  jobs [{
    id string
    action string
    result {
      eta string
      kpi [{
        metric string
        values {
        }
      }]
    }
    epoch integer
    stats [{

```

```

        value string
        metric string
    }}
    cur_iter integer
    graphical [{
    Array of object:
        units string
        x_max integer
        x_min integer
        y_max number
        y_min number
        metric string
        values {
        }
    }]
    max_epoch integer
    categorical [{
    Array of object:
        metric string
        category_wise_values [{
        Array of object:
            value number
            category string
        }]
    }]
    automl_result [{
    Array of object:
        value number
        metric string
    }]
    time_per_iter string
    time_per_epoch string
    detailed_status {
        date string
        time string
        status string
        message string
    }
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
metric string
public boolean
actions [string]
version string
automl_R integer
ngc_path string
automl_nu integer
read_only boolean
created_on string
description string
dataset_type enum ALLOWED:object_detection,

```

```

        semantic_segmentation,
        image_classification,
        instance_segmentation,
        character_recognition, bpnet, fpenet,
        action_recognition, pointpillars,
        pose_classification, ml_recog, ocdnet,
        ocrnet, optical_inspection,
        re_identification

eval_dataset      string
network_arch      enum    ALLOWED:detectnet_v2, faster_rcnn, yolo_v4,
                           yolo_v4_tiny, yolo_v3, ssd, dssd,
                           retinanet, unet, lprnet,
                           classification_tf1, classification_tf2,
                           efficientdet_tf1, efficientdet_tf2,
                           mask_rcnn, multitask_classification,
                           bpnet, fpenet, action_recognition,
                           classification_pyt, mal, ml_recog, ocdnet,
                           ocrnet, optical_inspection, pointpillars,
                           pose_classification, re_identification,
                           deformable_detr, dino, segformer,
                           annotations, analytics, augmentation,
                           auto_label

last_modified     string
automl_enabled     boolean
encryption_key     string
train_datasets    [string]
automl_algorithm   string
epoch_multiplier   integer
inference_dataset  string
additional_id_info string
calibration_dataset string
automl_add_hyperparameters string
automl_max_recommendations integer
automl_remove_hyperparameters string
automl_delete_intermediate_ckpt boolean
}}

```

## 2.2 POST /api/v1/user/{user\_id}/model

### Create new Model

Returns the new Model

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID

#### REQUEST BODY - application/json

```

{
  ptm           [string]
  logo          string
  name          string
  public        boolean
  version       string
}

```

```

ngc_path          string
read_only         boolean
description       string
eval_dataset     string
network_arch      enum    ALLOWED:detectnet_v2, faster_rcnn, yolo_v4, yolo_v4_tiny,
                           yolo_v3, ssd, dssd, retinanet, unet, lprnet,
                           classification_tf1, classification_tf2,
                           efficientdet_tf1, efficientdet_tf2, mask_rcnn,
                           multitask_classification, bpnnet, fpenet,
                           action_recognition, classification_pyt, mal, ml_recog,
                           ocdnet, ocrnet, optical_inspection, pointpillars,
                           pose_classification, re_identification, deformable_detr,
                           dino, segformer, annotations, analytics, augmentation,
                           auto_label

encryption_key*   string
train_datasets    [string]
inference_dataset string
additional_id_info string
calibration_dataset string
}

```

## RESPONSE

**STATUS CODE - 201:** Returned the new Model

**RESPONSE MODEL - application/json**

```

{
  id          string
  ptm         [string]
  jobs [{
    Array of object:
    id          string
    action      string
    result {
      eta       string
      kpi [{
        Array of object:
        metric string
        values {
        }
      }]
      epoch     integer
      stats [{
        Array of object:
        value  string
        metric string
      }]
      cur_iter  integer
      graphical [{
        Array of object:
        units  string
        x_max  integer
        x_min  integer
        y_max  number
        y_min  number
        metric string
        values {

```

```

    }
  }}
  max_epoch      integer
  categorical [{
    Array of object:
    metric      string
    category_wise_values [{
      Array of object:
      value      number
      category    string
    }]
  }}
  automl_result [{
    Array of object:
    value      number
    metric     string
  }]
  time_per_iter  string
  time_per_epoch string
  detailed_status {
    date      string
    time      string
    status     string
    message   string
  }
}
status      enum    ALLOWED:Done, Running, Error, Pending
parent_id   string
created_on  string
last_modified string
}]
logo        string
name        string
metric      string
public      boolean
actions     [string]
version     string
automl_R    integer
ngc_path    string
automl_nu   integer
read_only   boolean
created_on  string
description string
dataset_type enum    ALLOWED:object_detection,
                      semantic_segmentation,
                      image_classification,
                      instance_segmentation,
                      character_recognition, bpnet, fpenet,
                      action_recognition, pointpillars,
                      pose_classification, ml_recog, ocdnet,
                      ocrnet, optical_inspection,
                      re_identification

eval_dataset string
network_arch  enum    ALLOWED:detectnet_v2, faster_rcnn,
                      yolo_v4, yolo_v4_tiny, yolo_v3, ssd,
                      dssd, retinanet, unet, lprnet,
                      classification_tf1, classification_tf2,

```

efficientdet\_tf1, efficientdet\_tf2,  
mask\_rcnn, multitask\_classification,  
bpnet, fpenet, action\_recognition,  
classification\_pyt, mal, ml\_recog,  
ocdnet, ocrnet, optical\_inspection,  
pointpillars, pose\_classification,  
re\_identification, deformable\_detr, dino,  
segformer, annotations, analytics,  
augmentation, auto\_label

```
last_modified      string
automl_enabled     boolean
encryption_key     string
train_datasets    [string]
automl_algorithm   string
epoch_multiplier   integer
inference_dataset  string
additional_id_info string
calibration_dataset string
automl_add_hyperparameters string
automl_max_recommendations integer
automl_remove_hyperparameters string
automl_delete_intermediate_ckpt boolean
}
```

STATUS CODE - 400: Bad request, see reply body for details

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

### 2.3 GET /api/v1/user/{user\_id}/model/{model\_id}

#### Retrieve Model

Returns the Model

#### REQUEST

##### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model to return

#### RESPONSE

STATUS CODE - 200: Returned the Model

RESPONSE MODEL - application/json

```
{
  id      string
  ptm     [string]
  jobs [{
    Array of object:
    id      string
```

```

action          string
result {
  eta           string
  kpi [{
    Array of object:
      metric string
      values {
      }
    }
  ]
  epoch         integer
  stats [{
    Array of object:
      value string
      metric string
    }
  ]
  cur_iter      integer
  graphical [{
    Array of object:
      units string
      x_max integer
      x_min integer
      y_max number
      y_min number
      metric string
      values {
      }
    }
  ]
  max_epoch     integer
  categorical [{
    Array of object:
      metric string
      category_wise_values [{
        Array of object:
          value number
          category string
        }
      ]
    }
  ]
  automl_result [{
    Array of object:
      value number
      metric string
    }
  ]
  time_per_iter string
  time_per_epoch string
  detailed_status {
    date string
    time string
    status string
    message string
  }
}
status          enum    ALLOWED:Done, Running, Error, Pending
parent_id       string
created_on      string
last_modified   string
}
logo            string

```

name	string	
metric	string	
public	boolean	
actions	[string]	
version	string	
automl_R	integer	
ngc_path	string	
automl_nu	integer	
read_only	boolean	
created_on	string	
description	string	
dataset_type	enum	ALLOWED:object_detection, semantic_segmentation, image_classification, instance_segmentation, character_recognition, bpnnet, fpenet, action_recognition, pointpillars, pose_classification, ml_recog, ocdnet, ocrnet, optical_inspection, re_identification
eval_dataset	string	
network_arch	enum	ALLOWED:detectnet_v2, faster_rcnn, yolo_v4, yolo_v4_tiny, yolo_v3, ssd, dssd, retinanet, unet, lprnet, classification_tf1, classification_tf2, efficientdet_tf1, efficientdet_tf2, mask_rcnn, multitask_classification, bpnnet, fpenet, action_recognition, classification_pyt, mal, ml_recog, ocdnet, ocrnet, optical_inspection, pointpillars, pose_classification, re_identification, deformable_detr, dino, segformer, annotations, analytics, augmentation, auto_label
last_modified	string	
automl_enabled	boolean	
encryption_key	string	
train_datasets	[string]	
automl_algorithm	string	
epoch_multiplier	integer	
inference_dataset	string	
additional_id_info	string	
calibration_dataset	string	
automl_add_hyperparameters	string	
automl_max_recommendations	integer	
automl_remove_hyperparameters	string	
automl_delete_intermediate_ckpt	boolean	

}

**STATUS CODE - 404:** User or Model not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```



## 2.4 PUT /api/v1/user/{user\_id}/model/{model\_id}

### Update Model

Returns the updated Model

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model to update

#### REQUEST BODY - application/json

```
{
  ptm                [string]
  logo               string
  name               string
  public             boolean
  version            string
  ngc_path           string
  read_only          boolean
  description         string
  eval_dataset       string
  network_arch       enum    ALLOWED:detectnet_v2, faster_rcnn, yolo_v4, yolo_v4_tiny,
                             yolo_v3, ssd, dssd, retinanet, unet, lprnet,
                             classification_tf1, classification_tf2,
                             efficientdet_tf1, efficientdet_tf2, mask_rcnn,
                             multitask_classification, bpnnet, fpenet,
                             action_recognition, classification_pytorch, mal, ml_recog,
                             ocdnet, ocrnet, optical_inspection, pointpillars,
                             pose_classification, re_identification, deformable_detr,
                             dino, segformer, annotations, analytics, augmentation,
                             auto_label
  encryption_key*    string
  train_datasets     [string]
  inference_dataset  string
  additional_id_info string
  calibration_dataset string
}
```

### RESPONSE

STATUS CODE - 200: Returned the updated Model

#### RESPONSE MODEL - application/json

```
{
  id                string
  ptm               [string]
  jobs [{
    Array of object:
      id            string
      action         string
      result {
        eta         string
        kpi [{
          Array of object:
```

```

        metric string
        values {
        }
    }]
    epoch integer
    stats [{
    Array of object:
        value string
        metric string
    }]
    cur_iter integer
    graphical [{
    Array of object:
        units string
        x_max integer
        x_min integer
        y_max number
        y_min number
        metric string
        values {
        }
    }]
    max_epoch integer
    categorical [{
    Array of object:
        metric string
        category_wise_values [{
        Array of object:
            value number
            category string
        }]
    }]
    automl_result [{
    Array of object:
        value number
        metric string
    }]
    time_per_iter string
    time_per_epoch string
    detailed_status {
        date string
        time string
        status string
        message string
    }
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
metric string
public boolean
actions [string]
version string

```

automl_R	integer	
ngc_path	string	
automl_nu	integer	
read_only	boolean	
created_on	string	
description	string	
dataset_type	enum	ALLOWED:object_detection, semantic_segmentation, image_classification, instance_segmentation, character_recognition, bpnet, fpenet, action_recognition, pointpillars, pose_classification, ml_recog, ocdnet, ocrnet, optical_inspection, re_identification
eval_dataset	string	
network_arch	enum	ALLOWED:detectnet_v2, faster_rcnn, yolo_v4, yolo_v4_tiny, yolo_v3, ssd, dssd, retinanet, unet, lprnet, classification_tf1, classification_tf2, efficientdet_tf1, efficientdet_tf2, mask_rcnn, multitask_classification, bpnet, fpenet, action_recognition, classification_pyt, mal, ml_recog, ocdnet, ocrnet, optical_inspection, pointpillars, pose_classification, re_identification, deformable_detr, dino, segformer, annotations, analytics, augmentation, auto_label
last_modified	string	
automl_enabled	boolean	
encryption_key	string	
train_datasets	[string]	
automl_algorithm	string	
epoch_multiplier	integer	
inference_dataset	string	
additional_id_info	string	
calibration_dataset	string	
automl_add_hyperparameters	string	
automl_max_recommendations	integer	
automl_remove_hyperparameters	string	
automl_delete_intermediate_ckpt	boolean	

}

**STATUS CODE - 400:** Bad request, see reply body for details

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

**STATUS CODE - 404:** User or Model not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

}

## 2.5 DELETE /api/v1/user/{user\_id}/model/{model\_id}

### Delete Model

Cancels all related running jobs and returns the deleted Model

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model to delete

### RESPONSE

STATUS CODE - 200: Returned the deleted Model

#### RESPONSE MODEL - application/json

```
{
  id                string
  ptm               [string]
  jobs [{
    Array of object:
    id              string
    action          string
    result {
      eta           string
      kpi [{
        Array of object:
        metric      string
        values {
        }
      }]
    }
    epoch           integer
    stats [{
      Array of object:
      value         string
      metric        string
    }]
    cur_iter        integer
    graphical [{
      Array of object:
      units         string
      x_max         integer
      x_min         integer
      y_max         number
      y_min         number
      metric        string
      values {
      }
    }]
    max_epoch       integer
    categorical [{
      Array of object:
```

```

    metric      string
    category_wise_values [{
      Array of object:
        value      number
        category    string
    }]
  }]
  automl_result [{
    Array of object:
      value      number
      metric     string
    }]
  time_per_iter    string
  time_per_epoch  string
  detailed_status {
    date      string
    time      string
    status    string
    message   string
  }
}
status      enum    ALLOWED:Done, Running, Error, Pending
parent_id   string
created_on  string
last_modified string
}]
logo                string
name                string
metric              string
public              boolean
actions             [string]
version             string
automl_R            integer
ngc_path            string
automl_nu           integer
read_only           boolean
created_on          string
description          string
dataset_type        enum    ALLOWED:object_detection,
                             semantic_segmentation,
                             image_classification,
                             instance_segmentation,
                             character_recognition, bpnet, fpenet,
                             action_recognition, pointpillars,
                             pose_classification, ml_recog, ocdnet,
                             ocrnet, optical_inspection,
                             re_identification

eval_dataset        string
network_arch         enum    ALLOWED:detectnet_v2, faster_rcnn, yolo_v4,
                             yolo_v4_tiny, yolo_v3, ssd, dssd,
                             retinanet, unet, lprnet,
                             classification_tf1, classification_tf2,
                             efficientdet_tf1, efficientdet_tf2,
                             mask_rcnn, multitask_classification,
                             bpnet, fpenet, action_recognition,
                             classification_pyt, mal, ml_recog, ocdnet,
                             ocrnet, optical_inspection, pointpillars,

```

pose\_classification, re\_identification,  
deformable\_detr, dino, segformer,  
annotations, analytics, augmentation,  
auto\_label

```
last_modified      string
automl_enabled     boolean
encryption_key     string
train_datasets    [string]
automl_algorithm   string
epoch_multiplier   integer
inference_dataset  string
additional_id_info string
calibration_dataset string
automl_add_hyperparameters string
automl_max_recommendations integer
automl_remove_hyperparameters string
automl_delete_intermediate_ckpt boolean
}
```

STATUS CODE - 404: User or Model not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

## 2.6 PATCH /api/v1/user/{user\_id}/model/{model\_id}

### Partial update Model

Returns the updated Model

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model to update

#### REQUEST BODY - application/json

```
{
  ptm           [string]
  logo          string
  name          string
  public        boolean
  version       string
  ngc_path      string
  read_only     boolean
  description   string
  eval_dataset  string
  network_arch  enum    ALLOWED:detectnet_v2, faster_rcnn, yolo_v4, yolo_v4_tiny,
                        yolo_v3, ssd, dssd, retinanet, unet, lprnet,
                        classification_tf1, classification_tf2,
                        efficientdet_tf1, efficientdet_tf2, mask_rcnn,
                        multitask_classification, bpnnet, fpenet,
```

```

        action_recognition, classification_pyt, mal, ml_recog,
        ocdnet, ocrnet, optical_inspection, pointpillars,
        pose_classification, re_identification, deformable_detr,
        dino, segformer, annotations, analytics, augmentation,
        auto_label

    encryption_key*      string
    train_datasets       [string]
    inference_dataset     string
    additional_id_info    string
    calibration_dataset   string
}

```

## RESPONSE

**STATUS CODE - 200:** Returned the updated Model

**RESPONSE MODEL - application/json**

```

{
  id                string
  ptm               [string]
  jobs [{
    Array of object:
    id                string
    action            string
    result {
      eta              string
      kpi [{
        Array of object:
        metric string
        values {
        }
      }]
    }
    epoch              integer
    stats [{
      Array of object:
      value string
      metric string
    }]
    cur_iter            integer
    graphical [{
      Array of object:
      units string
      x_max integer
      x_min integer
      y_max number
      y_min number
      metric string
      values {
      }
    }]
    max_epoch          integer
    categorical [{
      Array of object:
      metric string
      category_wise_values [{
        Array of object:
        value number

```

```

        category string
    }]
}]
automl_result [{
    Array of object:
        value number
        metric string
    }]
time_per_iter string
time_per_epoch string
detailed_status {
    date string
    time string
    status string
    message string
}
}
status enum ALLOWED:Done, Running, Error, Pending
parent_id string
created_on string
last_modified string
}]
logo string
name string
metric string
public boolean
actions [string]
version string
automl_R integer
ngc_path string
automl_nu integer
read_only boolean
created_on string
description string
dataset_type enum ALLOWED:object_detection,
semantic_segmentation,
image_classification,
instance_segmentation,
character_recognition, bpnet, fpenet,
action_recognition, pointpillars,
pose_classification, ml_recog, ocdnet,
ocrnet, optical_inspection,
re_identification

eval_dataset string
network_arch enum ALLOWED:detectnet_v2, faster_rcnn,
yolo_v4, yolo_v4_tiny, yolo_v3, ssd,
dssd, retinanet, unet, lprnet,
classification_tf1, classification_tf2,
efficientdet_tf1, efficientdet_tf2,
mask_rcnn, multitask_classification,
bpnet, fpenet, action_recognition,
classification_pyt, mal, ml_recog,
ocdnet, ocrnet, optical_inspection,
pointpillars, pose_classification,
re_identification, deformable_detr, dino,
segformer, annotations, analytics,
augmentation, auto_label

```



```

last_modified      string
automl_enabled     boolean
encryption_key     string
train_datasets    [string]
automl_algorithm   string
epoch_multiplier   integer
inference_dataset  string
additional_id_info string
calibration_dataset string
automl_add_hyperparameters string
automl_max_recommendations integer
automl_remove_hyperparameters string
automl_delete_intermediate_ckpt boolean
}

```

**STATUS CODE - 400:** Bad request, see reply body for details

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

**STATUS CODE - 404:** User or Model not found

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

## 2.7 GET /api/v1/user/{user\_id}/model/{model\_id}/job

### List Jobs for Model

Returns the list of Jobs

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID for Model

#### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
skip	integer	Optional skip for pagination
size	integer	Optional size for pagination
sort	enum	Optional sort
		ALLOWED: date-descending, date-ascending

### RESPONSE

**STATUS CODE - 200:** Returned list of Jobs

## RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    id          string  
    action      string  
    result {  
      eta          string  
      kpi [{  
        Array of object:  
          metric string  
          values {  
          }  
        }]  
      epoch          integer  
      stats [{  
        Array of object:  
          value string  
          metric string  
        }]  
      cur_iter          integer  
      graphical [{  
        Array of object:  
          units string  
          x_max integer  
          x_min integer  
          y_max number  
          y_min number  
          metric string  
          values {  
          }  
        }]  
      max_epoch          integer  
      categorical [{  
        Array of object:  
          metric string  
          category_wise_values [{  
            Array of object:  
              value number  
              category string  
            }]  
          }]  
      automl_result [{  
        Array of object:  
          value number  
          metric string  
        }]  
      time_per_iter string  
      time_per_epoch string  
      detailed_status {  
        date string  
        time string  
        status string  
        message string  
      }  
    }  
  }  
  status          enum    ALLOWED:Done, Running, Error, Pending  
  parent_id       string
```

```
    created_on    string
    last_modified string
  ]]
```

**STATUS CODE - 404:** User or Model not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

---

## 2.8 POST /api/v1/user/{user\_id}/model/{model\_id}/job

### Run Model Jobs

Asynchronously starts a list of Model Actions and returns corresponding Job IDs

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID for Model

#### REQUEST BODY - application/json

```
[{
  job      string
  actions [string]
}]
```

Array of object:

### RESPONSE

**STATUS CODE - 201:** Returned the list of Job IDs corresponding to requested Model Actions

**RESPONSE MODEL - application/json**

```
[string]
```

**STATUS CODE - 404:** User or Model not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

---

## 2.9 GET /api/v1/user/{user\_id}/model/{model\_id}/job/{job\_id}

### Retrieve Job for Model

Returns the Job

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model
*job_id	uuid	Job ID

## RESPONSE

STATUS CODE - 200: Returned Job

RESPONSE MODEL - application/json

```
{
  id                string
  action            string
  result {
    eta              string
    kpi [{
      Array of object:
      metric string
      values {
      }
    }]
    epoch            integer
    stats [{
      Array of object:
      value string
      metric string
    }]
    cur_iter          integer
    graphical [{
      Array of object:
      units string
      x_max integer
      x_min integer
      y_max number
      y_min number
      metric string
      values {
      }
    }]
    max_epoch         integer
    categorical [{
      Array of object:
      metric string
      category_wise_values [{
        Array of object:
        value number
        category string
      }]
    }]
    automl_result [{
      Array of object:
      value number
      metric string
    }]
    time_per_iter     string
  }
```

```

    time_per_epoch  string
    detailed_status {
        date      string
        time      string
        status     string
        message    string
    }
}
status          enum    ALLOWED:Done, Running, Error, Pending
parent_id       string
created_on      string
last_modified   string
}

```

**STATUS CODE - 404:** User, Model or Job not found

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

## 2.10 POST /api/v1/user/{user\_id}/model/{model\_id}/job/{job\_id}

Cancel Model Job or pause training

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID for Model
*job_id	uuid	ID for Job

### RESPONSE

**STATUS CODE - 200:** Successfully requested cancelation or training pause of specified Job ID (asynchronous)

**STATUS CODE - 404:** User, Model or Job not found

**RESPONSE MODEL - application/json**

```

{
  error_code integer
  error_desc string
}

```

## 2.11 GET /api/v1/user/{user\_id}/model/{model\_id}/specs/{action}

Retrieve Model Specs

Returns the Model Specs for a given action

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model
*action	string	Action name

## RESPONSE

**STATUS CODE - 200:** Returned the Model Specs for specified action

**RESPONSE MODEL - application/json**

```
{
}
```

**STATUS CODE - 404:** User, Model or Action not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

## 2.12 PUT /api/v1/user/{user\_id}/model/{model\_id}/specs/{action}

### Update Model Specs

Update the Model Specs for a given action

## REQUEST

### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model
*action	string	Action name

**REQUEST BODY - application/json**

```
{
}
```

## RESPONSE

**STATUS CODE - 200:** Returned the updated Model Specs for specified action

**RESPONSE MODEL - application/json**

```
{
}
```

**STATUS CODE - 400:** Invalid specs

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

STATUS CODE - 404: User, Model or Action not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

---

## 2.13 POST /api/v1/user/{user\_id}/model/{model\_id}/specs/{action}

### Save Model Specs

Save the Model Specs for a given action

### REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model
*action	string	Action name

---

REQUEST BODY - application/json

```
{
}
```

### RESPONSE

STATUS CODE - 201: Returned the saved Model Specs for specified action

RESPONSE MODEL - application/json

```
{
}
```

STATUS CODE - 400: Invalid specs

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

STATUS CODE - 404: User, Model or Action not found

RESPONSE MODEL - application/json

```
{
  error_code integer
  error_desc string
}
```

---

## 2.14 POST /api/v1/user/{user\_id}/model/{model\_id}/job/{job\_id}/cancel

### Cancel Model Job or pause training

### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID for Model
*job_id	uuid	ID for Job

## RESPONSE

**STATUS CODE - 200:** Successfully requested cancelation or training pause of specified Job ID (asynchronous)

**STATUS CODE - 404:** User, Model or Job not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

## 2.15 POST /api/v1/user/{user\_id}/model/{model\_id}/job/{job\_id}/resume

### Resume Model Job

Resume Model Job - train/retrain only

## REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID for Model
*job_id	uuid	ID for Job

## RESPONSE

**STATUS CODE - 200:** Successfully requested resume of specified Job ID (asynchronous)

**STATUS CODE - 404:** User, Model or Job not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

## 2.16 GET /api/v1/user/{user\_id}/model/{model\_id}/job/{job\_id}/download

### Download Job Artifacts

Download the Artifacts produced by a given job

## REQUEST

#### PATH PARAMETERS



NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID of Model
*job_id	uuid	Job ID

## RESPONSE

**STATUS CODE - 200:** Returned Job Artifacts

**RESPONSE MODEL - application/octet-stream**

string

**STATUS CODE - 404:** User, Model or Job not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

## 2.17 GET /api/v1/user/{user\_id}/model/{model\_id}/specs/{action}/schema

### Retrieve Specs schema

Returns the Specs schema for a given action

## REQUEST

### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*user_id	uuid	User ID
*model_id	uuid	ID for Model
*action	string	Action name

## RESPONSE

**STATUS CODE - 200:** Returned the Specs schema for given action

**RESPONSE MODEL - application/json**

```
{
}
```

**STATUS CODE - 404:** Dataset or Action not found

**RESPONSE MODEL - application/json**

```
{
  error_code integer
  error_desc string
}
```

