## **API Reference**

# **NVIDIA** Transfer Learning API

API Version: 5.3.0

NVIDIA Transfer Learning API document

## **INDEX**

1. AUTHENTICATION	5
1.1 POST /api/v1/login	5
2. DATASET	6
2.1 GET /api/v1/orgs/{org_name}/datasets	6
2.2 POST /api/v1/orgs/{org_name}/datasets	8
2.3 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}	12
2.4 PUT /api/v1/orgs/{org_name}/datasets/{dataset_id}	14
<pre>2.5 DELETE /api/v1/orgs/{org_name}/datasets/{dataset_id}</pre>	17
2.6 PATCH /api/v1/orgs/{org_name}/datasets/{dataset_id}	20
2.7 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs	23
2.8 POST /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs	26
<pre>2.9 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/{job_id}</pre>	26
2.10 DELETE /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/{job_id}	28
2.11 POST /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/{job_id}:cancel	29
2.12 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/{job_id}:download	30
<pre>2.13 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/ {job_id}:status_update</pre>	30
2.14 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/specs/{action}/schema	32
3. DATASET	34
<pre>3.1 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/{job_id}:log_update</pre>	34
4. EXPERIMENT	36
4.1 GET /api/v1/orgs/{org_name}/experiments	36
4.2 POST /api/v1/orgs/{org_name}/experiments	40
4.3 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}	44
4.4 PUT /api/v1/orgs/{org_name}/experiments/{experiment_id}	48
4.5 DELETE /api/v1/orgs/{org_name}/experiments/{experiment_id}	53
4.6 PATCH /api/v1/orgs/{org_name}/experiments/{experiment_id}	57
4.7 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs	62
4.8 POST /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs	64
4.9 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/{job_id}	65
4.10 DELETE /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/{job_id}	67
<pre>4.11 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/{job_id}/ logs</pre>	67
<pre>4.12 POST /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/ {job_id}:cancel</pre>	68
<pre>4.13 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/ {job_id}:download</pre>	68
<pre>4.14 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/ {job_id}:log_update</pre>	69
<pre>4.15 POST /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/ {job_id}:publish_model</pre>	71

<pre>4.16 POST /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/ {job_id}:resume</pre>	72
<pre>4.17 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/ {job_id}:status_update</pre>	73
4.18 GET /api/v1/orgs/{org_name}/experiments/{experiment_id}/specs/{action}/schema	74

## **Security and Authentication**

## **SECURITY SCHEMES**

KEY	TYPE	DESCRIPTION
api-key	apiKey	
bearer-token	http, bearer, JWT	RFC8725 Compliant JWT

## API

## 1. AUTHENTICATION

Endpoints related to User Authentication

```
1.1 POST /api/v1/login
```

#### **User Login**

Returns the user credentials

#### **REQUEST**

```
REQUEST BODY - application/json
{
   ngc_api_key string max:1000 chars
}
```

#### **RESPONSE**

## 2. DATASET

#### **Endpoints related to Datasets**

## 2.1 GET /api/v1/orgs/{org\_name}/datasets

#### **List Datasets**

Returns the list of Datasets

#### **REQUEST**

#### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name

#### **QUERY PARAMETERS**

NAME	ТҮРЕ	DESCRIPTION
skip	int32 between 0 and 2147483647	Optional skip for pagination
size	int32 between 0 and 2147483647	Optional size for pagination
sort	enum ALLOWED: date-descending, date-ascending, name-descending, name-ascending	Optional sort
name	string max:5000 chars PATTERN: .*	Optional name filter
format	enum ALLOWED: monai, unet, custom	Optional format 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

Array of object:		
actions	[enum]	ALLOWED:dataset_convert, convert, convert_efficientdet_tf2, train, evaluate, prune, retrain, export, gen_trt_engine, trtexec, inference, batchinfer, augment, annotation_format_convert, analyze, validate, generate, calibration_tensorfile, annotation, nextimage, cacheimage, notify, auto3dseg
client_id	string	WRITE-ONLY max:2048 chars
client_secret	string	WRITE-ONLY max:2048 chars
client_url	string	max:2048 chars

```
cloud_details {
                                      ALLOWED: file, folder
  cloud_file_type
                           enum
  cloud_specific_details undefined
  cloud_type
                           enum
                                      ALLOWED: aws, azure, gcp, huggingface,
                                      self_hosted
}
created_on
                 string
                           max:26 chars
                           max:1000 chars
description
                 string
docker_env_vars {
}
filters
                 string
                           WRITE-ONLY
                           max:2048 chars
format
                 enum
                           ALLOWED: kitti, pascal_voc, raw, coco_raw, unet, coco,
                           lprnet, train, test, default, custom,
                           classification_pyt, classification_tf2,
                           visual_changenet_segment, visual_changenet_classify,
                           monai
                           max:36 chars
id
                 string
iobs [{
Array of object:
  action
                 enum
                            ALLOWED: dataset_convert, convert,
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec,
                            inference, batchinfer, augment,
                            annotation_format_convert, analyze, validate,
                            generate, calibration_tensorfile, annotation,
                            nextimage, cacheimage, notify, auto3dseg
  created_on
                            max:26 chars
                 string
  dataset id
                 strina
                            max:36 chars
                            max:1000 chars
  description
                 string
  id
                 string
                            max:36 chars
  job_tar_stats {
    file_size
                    integer between 0 and 9223372036854776000
    sha256_digest string
                            max:64 chars
  }
  last_modified string
                            max:26 chars
  name
                            max:500 chars
                 strina
                            between 0 and 9223372036854776000
  num_gpu
                 integer
                            max:36 chars
  parent_id
                 strina
  platform
                            ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
                 enum
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
         value
                   number
       }]
                          max:100 chars
       metric
                string
     }]
    cur iter
                         integer
                                       between 0 and 9223372036854776000
    detailed_status {
```

```
string max:26 chars
       date
       message string max:6400 chars
       status
               string max:100 chars
       time
                string max:26 chars
    }
    epoch
                         integer
                                       between -1 and 9223372036854776000
                         string
                                       max:9223372036854776000 chars
    eta
    graphical [{
    Array of object:
                       max:100 chars
       metric string
       units
              string
                       max:100 chars
       values {
       }
               integer between -9223372036854776000 and
                                                           9223372036854776000
       x_{max}
               integer between -9223372036854776000 and
                                                          9223372036854776000
       x_min
              number
       y_max
       y_min
              number
     }]
    key_metric
                         number
    kpi [{
    Array of object:
       metric string max:100 chars
       values {
       }
    }]
                                       between 0 and 9223372036854776000
    max_epoch
                         integer
    message
                                       max:9223372036854776000 chars
                         strina
    stats [{
    Array of object:
       metric string max:100 chars
       value string max:9223372036854776000 chars
    }]
                                       max:9223372036854776000 chars
    time_per_epoch
                         string
    time_per_iter
                         string
                                       max:9223372036854776000 chars
  }
  specs
                 undefined
                            ALLOWED: Done, Running, Error, Pending, Canceled
  status
                 enum
}]
                          max:26 chars
last_modified
                 string
logo
                 string
                          max:2048 chars
name
                          max:500 chars
                 strina
status
                          ALLOWED:starting, in_progress, pull_complete,
                 enum
                          invalid_pull
                          ALLOWED: object_detection, semantic_segmentation,
type
                 enum
                          image_classification, instance_segmentation,
                          character_recognition, action_recognition,
                          pointpillars, pose_classification, ml_recog, ocdnet,
                          ocrnet, optical_inspection, re_identification,
                          visual_changenet, centerpose, not_restricted,
                          user_custom
                          WRITE-ONLY
user_id
                 string
                          max:36 chars
version
                          max:10 chars
                 string
```

}]

#### Create new Dataset

Returns the new Dataset

#### **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name

```
REQUEST BODY - application/ison
                 string max:2048 chars
  client_id
  client_secret string max:2048 chars
                 string max:2048 chars
  client_url
  cloud_details {
    cloud_file_type
                            enum
                                       ALLOWED: file, folder
    cloud_specific_details undefined
    cloud_type
                                       ALLOWED: aws, azure, gcp, huggingface, self_hosted
                             enum
  }
  description
                 string max:1000 chars
  docker_env_vars {
  }
  filters
                 string max:2048 chars
  format
                         ALLOWED: kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                 enum
                         train, test, default, custom, classification_pyt,
                         classification_tf2, visual_changenet_segment,
                         visual_changenet_classify, monai
  logo
                 string max:2048 chars
                 string max:500 chars
  name
  status
                 enum
                         ALLOWED:starting, in_progress, pull_complete, invalid_pull
                         ALLOWED: object_detection, semantic_segmentation,
  type
                 enum
                         image_classification, instance_segmentation,
                         character_recognition, action_recognition, pointpillars,
                         pose_classification, ml_recog, ocdnet, ocrnet,
                         optical_inspection, re_identification, visual_changenet,
                         centerpose, not_restricted, user_custom
                 string max:36 chars
  user_id
  version
                 string max:10 chars
}
```

#### **RESPONSE**

```
STATUS CODE - 201: Retuned the new Dataset
```

client\_secret

WRITE-ONLY

string

```
max:2048 chars
client_url
                          max:2048 chars
                 string
cloud_details {
  cloud_file_type
                                      ALLOWED: file, folder
                           enum
  cloud_specific_details undefined
  cloud_type
                           enum
                                      ALLOWED:aws, azure, gcp, huggingface, self_hosted
}
                          max:26 chars
created_on
                 string
description
                          max:1000 chars
                 string
docker_env_vars {
filters
                          WRITE-ONLY
                 string
                          max:2048 chars
format
                          ALLOWED: kitti, pascal_voc, raw, coco_raw, unet, coco,
                 enum
                          lprnet, train, test, default, custom, classification_pyt,
                          classification_tf2, visual_changenet_segment,
                          visual_changenet_classify, monai
id
                          max:36 chars
                 string
iobs [{
Array of object:
  action
                 enum
                            ALLOWED: dataset_convert, convert,
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert, analyze,
                            validate, generate, calibration_tensorfile, annotation,
                            nextimage, cacheimage, notify, auto3dseg
  created_on
                 string
                            max:26 chars
  dataset_id
                            max:36 chars
                 string
  description
                 strina
                            max:1000 chars
                            max:36 chars
                 string
  job_tar_stats {
                   integer between 0 and 9223372036854776000
    file size
     sha256_digest string
                            max:64 chars
  last_modified string
                            max:26 chars
  name
                            max:500 chars
                 string
                            between 0 and 9223372036854776000
  num_gpu
                 integer
                            max:36 chars
  parent_id
                 string
  platform
                            ALLOWED: 14, 140, a10, a30, a40, a100, v100
                 enum
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
                   number
         value
       }]
                          max:100 chars
       metric
                strina
    }]
    cur_iter
                         integer
                                       between 0 and 9223372036854776000
    detailed_status {
       date
                string max:26 chars
```

```
status
                   string max:100 chars
           time
                    string max:26 chars
         }
                                           between -1 and 9223372036854776000
         epoch
                             integer
         eta
                             string
                                           max:9223372036854776000 chars
         graphical [{
         Array of object:
           metric string
                           max:100 chars
           units string
                          max:100 chars
           values {
                  integer between -9223372036854776000 and 9223372036854776000
           x_max
                   integer between -9223372036854776000 and 9223372036854776000
           x_min
           y_max
                   number
           y_min
                  number
         }]
         key_metric
                             number
         kpi [{
         Array of object:
           metric string max:100 chars
           values {
           }
         }]
                                           between 0 and 9223372036854776000
         max_epoch
                             integer
         message
                             string
                                           max:9223372036854776000 chars
         stats [{
         Array of object:
           metric string max:100 chars
           value string max:9223372036854776000 chars
         }]
                                           max:9223372036854776000 chars
         time_per_epoch
                             string
         time_per_iter
                             string
                                           max:9223372036854776000 chars
      }
                     undefined
      specs
                                ALLOWED: Done, Running, Error, Pending, Canceled
      status
                     enum
    }]
    last_modified
                     string
                              max:26 chars
                              max:2048 chars
    logo
                     string
    name
                     string
                              max:500 chars
    status
                     enum
                              ALLOWED:starting, in_progress, pull_complete, invalid_pull
                     enum
                              ALLOWED: object_detection, semantic_segmentation,
    type
                               image_classification, instance_segmentation,
                               character_recognition, action_recognition, pointpillars,
                               pose_classification, ml_recog, ocdnet, ocrnet,
                              optical_inspection, re_identification, visual_changenet,
                              centerpose, not_restricted, user_custom
    user_id
                              WRITE-ONLY
                     string
                              max:36 chars
    version
                     string
                              max:10 chars
 }
STATUS CODE - 400: Bad request, see reply body for details
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error desc string
                        max:1000 chars
```

message string max:6400 chars

#### 2.3 GET /api/v1/orgs/{org\_name}/datasets/{dataset\_id}

#### **Retrieve Dataset**

Returns the Dataset

#### **REOUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset to return

#### **RESPONSE**

```
STATUS CODE - 200: Returned Dataset
```

```
RESPONSE MODEL - application/json
  actions
                   [enum]
                             ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
                             train, evaluate, prune, retrain, export, gen_trt_engine,
                             trtexec, inference, batchinfer, augment,
                             annotation_format_convert, analyze, validate, generate,
                             calibration_tensorfile, annotation, nextimage, cacheimage,
                             notify, auto3dseg
                             WRITE-ONLY
  client_id
                   string
                             max:2048 chars
  client_secret
                             WRITE-ONLY
                   string
                             max:2048 chars
  client_url
                   string
                             max:2048 chars
  cloud_details {
    cloud_file_type
                                        ALLOWED: file, folder
                             enum
    cloud_specific_details undefined
                                        ALLOWED:aws, azure, gcp, huggingface, self_hosted
    cloud_type
                             enum
  }
                             max:26 chars
  created_on
                   string
  description
                             max:1000 chars
                   string
  docker_env_vars {
  }
  filters
                             WRITE-ONLY
                   string
                             max:2048 chars
  format
                             ALLOWED:kitti, pascal_voc, raw, coco_raw, unet, coco,
                   enum
                             lprnet, train, test, default, custom, classification_pyt,
                             classification_tf2, visual_changenet_segment,
                             visual_changenet_classify, monai
  id
                             max:36 chars
                   string
  jobs [{
  Array of object:
    action
                    enum
                               ALLOWED: dataset_convert, convert,
                               convert_efficientdet_tf2, train, evaluate, prune,
```

retrain, export, gen\_trt\_engine, trtexec, inference,

```
batchinfer, augment, annotation_format_convert, analyze,
                          validate, generate, calibration_tensorfile, annotation,
                          nextimage, cacheimage, notify, auto3dseq
                         max:26 chars
created_on
               string
                         max:36 chars
dataset_id
               string
description
               string
                         max:1000 chars
                         max:36 chars
               string
job_tar_stats {
  file_size
                 integer between 0 and 9223372036854776000
  sha256_digest string
                          max:64 chars
                         max:26 chars
last_modified string
                         max:500 chars
name
               string
                          between 0 and 9223372036854776000
num_gpu
               integer
                         max:36 chars
parent_id
               string
platform
               enum
                         ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
     category_wise_values [{
    Array of object:
       category string max:500 chars
                 number
       value
     }]
    metric
              string
                       max:100 chars
  }]
                                    between 0 and 9223372036854776000
  cur_iter
                       integer
  detailed_status {
     date
             string max:26 chars
    message string max:6400 chars
     status
             string max:100 chars
     time
             string max:26 chars
  }
                                    between -1 and 9223372036854776000
  epoch
                       integer
  eta
                       string
                                    max:9223372036854776000 chars
  graphical [{
  Array of object:
    metric string
                     max:100 chars
                     max:100 chars
    units string
    values {
            integer between -9223372036854776000 and
                                                         9223372036854776000
    x_{max}
    x_min
            integer between -9223372036854776000 and
                                                        9223372036854776000
    y_max
            number
            number
    y_min
  }]
                       number
  key_metric
  kpi [{
  Array of object:
    metric string max:100 chars
    values {
```

}

```
}]
         max_epoch
                             integer
                                           between 0 and 9223372036854776000
                                           max:9223372036854776000 chars
         message
                             string
         stats [{
         Array of object:
           metric string max:100 chars
           value string max:9223372036854776000 chars
         }]
                                           max:9223372036854776000 chars
         time_per_epoch
                             string
         time_per_iter
                                           max:9223372036854776000 chars
                             strina
      }
                     undefined
      specs
                     enum
                                ALLOWED: Done, Running, Error, Pending, Canceled
      status
    }]
    last_modified
                              max:26 chars
                     string
    logo
                              max:2048 chars
                     string
    name
                     string
                              max:500 chars
                              ALLOWED:starting, in_progress, pull_complete, invalid_pull
    status
                     enum
    type
                     enum
                              ALLOWED: object_detection, semantic_segmentation,
                               image_classification, instance_segmentation,
                               character_recognition, action_recognition, pointpillars,
                              pose_classification, ml_recog, ocdnet, ocrnet,
                              optical_inspection, re_identification, visual_changenet,
                               centerpose, not_restricted, user_custom
                              WRITE-ONLY
    user_id
                     string
                              max:36 chars
                              max:10 chars
    version
                     string
 }
STATUS CODE - 404: User or Dataset not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string
                        max:1000 chars
 }
```

#### 2.4 PUT /api/v1/orgs/{org\_name}/datasets/{dataset\_id}

#### **Update Dataset**

Returns the updated Dataset

#### **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset to update

```
client_url
                  string max:2048 chars
    cloud_details {
      cloud_file_type
                                         ALLOWED: file, folder
                              enum
      cloud_specific_details undefined
      cloud_type
                              enum
                                         ALLOWED:aws, azure, gcp, huggingface, self_hosted
    }
                   string max:1000 chars
    description
    docker_env_vars {
    }
    filters
                   string
                           max:2048 chars
    format
                           ALLOWED: kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                   enum
                           train, test, default, custom, classification_pyt,
                           classification_tf2, visual_changenet_segment,
                           visual_changenet_classify, monai
                   string max:2048 chars
    logo
                   string max:500 chars
    name
                           ALLOWED:starting, in_progress, pull_complete, invalid_pull
    status
                   enum
    type
                   enum
                           ALLOWED: object_detection, semantic_segmentation,
                           image_classification, instance_segmentation,
                           character_recognition, action_recognition, pointpillars,
                           pose_classification, ml_recog, ocdnet, ocrnet,
                           optical_inspection, re_identification, visual_changenet,
                           centerpose, not_restricted, user_custom
    user_id
                   string max:36 chars
                   string max:10 chars
    version
 }
RESPONSE
 STATUS CODE - 200: Returned the updated Dataset
   RESPONSE MODEL - application/json
                                ALLOWED:dataset_convert, convert, convert_efficientdet_tf2.
     actions
                      [enum]
                                train, evaluate, prune, retrain, export, gen_trt_engine,
                                trtexec, inference, batchinfer, augment,
                                annotation_format_convert, analyze, validate, generate,
                                calibration_tensorfile, annotation, nextimage,
                                cacheimage, notify, auto3dseg
     client_id
                      string
                                WRITE-ONLY
                                max:2048 chars
     client secret
                                WRITE-ONLY
                      string
                                max:2048 chars
     client_url
                                max:2048 chars
                      string
     cloud_details {
        cloud_file_type
                                           ALLOWED: file, folder
                                enum
        cloud_specific_details undefined
                                           ALLOWED:aws, azure, gcp, huggingface,
        cloud_type
                                enum
                                           self_hosted
     }
     created_on
                      string
                                max:26 chars
     description
                      string
                                max:1000 chars
     docker_env_vars {
     }
     filters
                      string
                                WRITE-ONLY
```

max:2048 chars

enum

ALLOWED: kitti, pascal\_voc, raw, coco\_raw, unet, coco,

format

client\_secret string max:2048 chars

```
lprnet, train, test, default, custom, classification_pyt,
                          classification_tf2, visual_changenet_segment,
                          visual_changenet_classify, monai
                          max:36 chars
id
                 string
jobs [{
Array of object:
  action
                 enum
                            ALLOWED: dataset_convert, convert,
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert,
                            analyze, validate, generate, calibration_tensorfile,
                            annotation, nextimage, cacheimage, notify, auto3dseg
  created_on
                 string
                            max:26 chars
  dataset_id
                            max:36 chars
                 string
  description
                            max:1000 chars
                 string
                            max:36 chars
                 string
  iob_tar_stats {
    file_size
                   integer between 0 and 9223372036854776000
    sha256_digest string
                            max:64 chars
  last_modified string
                            max:26 chars
                            max:500 chars
  name
                 strina
  num_gpu
                 integer
                            between 0 and 9223372036854776000
                            max:36 chars
  parent_id
                 string
  platform
                            ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
                 enum
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
                  number
         value
       }]
                         max:100 chars
       metric
                string
    }]
    cur iter
                         integer
                                      between 0 and 9223372036854776000
    detailed_status {
       date
                string max:26 chars
       message string max:6400 chars
       status
               string max:100 chars
       time
                string max:26 chars
     }
                                      between -1 and 9223372036854776000
    epoch
                         integer
    eta
                         string
                                      max:9223372036854776000 chars
    graphical [{
    Array of object:
                       max:100 chars
       metric string
       units string
                       max:100 chars
       values {
       }
              integer between -9223372036854776000 and 9223372036854776000
       x_max
       x_min
              integer between -9223372036854776000 and 9223372036854776000
```

```
y_max
                   number
                   number
           y_min
         }]
         key_metric
                              number
         kpi [{
         Array of object:
           metric string max:100 chars
           values {
           }
         }]
         max_epoch
                              integer
                                           between 0 and 9223372036854776000
                                           max:9223372036854776000 chars
         message
                              string
         stats [{
         Array of object:
           metric string max:100 chars
           value string max:9223372036854776000 chars
         }]
                                           max:9223372036854776000 chars
         time_per_epoch
                              string
         time_per_iter
                              string
                                           max:9223372036854776000 chars
      }
      specs
                     undefined
                                ALLOWED: Done, Running, Error, Pending, Canceled
      status
                     enum
    }]
    last_modified
                     string
                               max:26 chars
    logo
                               max:2048 chars
                     string
    name
                               max:500 chars
                     string
    status
                               ALLOWED:starting, in_progress, pull_complete, invalid_pull
                     enum
                               ALLOWED: object_detection, semantic_segmentation,
    type
                     enum
                               image_classification, instance_segmentation,
                               character_recognition, action_recognition, pointpillars,
                               pose_classification, ml_recog, ocdnet, ocrnet,
                               optical_inspection, re_identification, visual_changenet,
                               centerpose, not_restricted, user_custom
    user_id
                     string
                               WRITE-ONLY
                               max:36 chars
                               max:10 chars
    version
                     string
 }
STATUS CODE - 400: Bad request, see reply body for details
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
                        max:1000 chars
    error_desc string
STATUS CODE - 404: User or Dataset not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string
                        max:1000 chars
  }
```

#### 2.5 DELETE /api/v1/orgs/{org\_name}/datasets/{dataset\_id}

#### **REQUEST**

#### PATH PARAMETERS

description

string

max:1000 chars

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset to delete

#### **RESPONSE**

#### STATUS CODE - 200: Deleted Dataset **RESPONSE MODEL - application/json** actions [enum] ALLOWED:dataset\_convert, convert, convert\_efficientdet\_tf2, train, evaluate, prune, retrain, export, gen\_trt\_engine, trtexec, inference, batchinfer, augment, annotation\_format\_convert, analyze, validate, generate, calibration\_tensorfile, annotation, nextimage, cacheimage, notify, auto3dseg client\_id WRITE-ONLY string max:2048 chars WRITE-ONLY client\_secret string max:2048 chars client\_url max:2048 chars string cloud\_details { cloud\_file\_type ALLOWED: file, folder enum cloud\_specific\_details undefined cloud\_type ALLOWED:aws, azure, gcp, huggingface, self\_hosted enum } created\_on string max:26 chars max:1000 chars description string docker\_env\_vars { filters WRITE-ONLY string max:2048 chars format ALLOWED: kitti, pascal\_voc, raw, coco\_raw, unet, coco, enum lprnet, train, test, default, custom, classification\_pyt, classification\_tf2, visual\_changenet\_segment, visual\_changenet\_classify, monai max:36 chars id string jobs [{ Array of object: action enum ALLOWED: dataset\_convert, convert, convert\_efficientdet\_tf2, train, evaluate, prune, retrain, export, gen\_trt\_engine, trtexec, inference, batchinfer, augment, annotation\_format\_convert, analyze, validate, generate, calibration\_tensorfile, annotation, nextimage, cacheimage, notify, auto3dseg created\_on string max:26 chars max:36 chars dataset\_id string

```
id
               string
                          max:36 chars
job_tar_stats {
  file size
                 integer between 0 and 9223372036854776000
                          max:64 chars
  sha256_digest string
}
                          max:26 chars
last_modified string
name
               string
                          max:500 chars
                          between 0 and 9223372036854776000
num_gpu
               integer
                          max:36 chars
parent_id
               string
platform
               enum
                          ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
    category_wise_values [{
    Array of object:
       category string max:500 chars
                number
       value
     }]
    metric
              string
                       max:100 chars
  }]
                       integer
                                    between 0 and 9223372036854776000
  cur_iter
  detailed_status {
             string max:26 chars
    date
    message string max:6400 chars
    status
             string max:100 chars
     time
             string max:26 chars
  }
                                    between -1 and 9223372036854776000
  epoch
                       integer
  eta
                       string
                                    max:9223372036854776000 chars
  graphical [{
  Array of object:
    metric string
                     max:100 chars
    units
            string
                     max:100 chars
    values {
     }
            integer between -9223372036854776000 and 9223372036854776000
    x max
    x_min
            integer between -9223372036854776000 and 9223372036854776000
    y_max
            number
            number
    y_min
  }]
  key_metric
                       number
  kpi [{
  Array of object:
    metric string max:100 chars
    values {
     }
  }]
                                    between 0 and 9223372036854776000
  max_epoch
                       integer
                                    max:9223372036854776000 chars
  message
                       string
  stats [{
  Array of object:
    metric string max:100 chars
```

```
value string max:9223372036854776000 chars
         }]
                                          max:9223372036854776000 chars
         time_per_epoch
                             string
         time_per_iter
                                          max:9223372036854776000 chars
                             string
      }
      specs
                     undefined
      status
                     enum
                                ALLOWED: Done, Running, Error, Pending, Canceled
    }]
    last_modified
                             max:26 chars
                    string
    logo
                             max:2048 chars
                     string
    name
                     string
                              max:500 chars
                              ALLOWED:starting, in_progress, pull_complete, invalid_pull
    status
                     enum
                              ALLOWED:object_detection, semantic_segmentation,
    type
                     enum
                              image_classification, instance_segmentation,
                              character_recognition, action_recognition, pointpillars,
                              pose_classification, ml_recog, ocdnet, ocrnet,
                              optical_inspection, re_identification, visual_changenet,
                              centerpose, not_restricted, user_custom
    user_id
                              WRITE-ONLY
                     string
                              max:36 chars
                              max:10 chars
    version
                     string
 }
STATUS CODE - 400: Bad request, see reply body for details
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
STATUS CODE - 404: User or Dataset not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

#### 2.6 PATCH /api/v1/orgs/{org\_name}/datasets/{dataset\_id}

#### **Partial update Dataset**

Returns the updated Dataset

#### **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset to update

```
REQUEST BODY - application/json
```

```
client_id
                 string max:2048 chars
  client_secret string max:2048 chars
                 string max:2048 chars
  client_url
  cloud_details {
    cloud_file_type
                                       ALLOWED: file, folder
                             enum
    cloud_specific_details undefined
    cloud_type
                             enum
                                       ALLOWED:aws, azure, gcp, huggingface, self_hosted
  }
  description
                 string max:1000 chars
  docker_env_vars {
  filters
                 string max:2048 chars
  format
                         ALLOWED: kitti, pascal_voc, raw, coco_raw, unet, coco, lprnet,
                 enum
                         train, test, default, custom, classification_pyt,
                         classification_tf2, visual_changenet_segment,
                         visual_changenet_classify, monai
                 string max:2048 chars
  logo
                 string max:500 chars
  name
                         ALLOWED:starting, in_progress, pull_complete, invalid_pull
  status
                 enum
                 enum
                         ALLOWED:object_detection, semantic_segmentation,
  type
                         image_classification, instance_segmentation,
                         character_recognition, action_recognition, pointpillars,
                         pose_classification, ml_recog, ocdnet, ocrnet,
                         optical_inspection, re_identification, visual_changenet,
                         centerpose, not_restricted, user_custom
                 string max:36 chars
  user_id
  version
                 string max:10 chars
STATUS CODE - 200: Returned the updated Dataset
 RESPONSE MODEL - application/json
 {
```

#### **RESPONSE**

}

```
actions
                 [enum]
                          ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
                          train, evaluate, prune, retrain, export, gen_trt_engine,
                          trtexec, inference, batchinfer, augment,
                          annotation_format_convert, analyze, validate, generate,
                          calibration_tensorfile, annotation, nextimage,
                          cacheimage, notify, auto3dseg
client_id
                          WRITE-ONLY
                string
                          max:2048 chars
client_secret
                          WRITE-ONLY
                string
                          max:2048 chars
client_url
                          max:2048 chars
                string
cloud_details {
  cloud_file_type
                                     ALLOWED: file, folder
                           enum
  cloud_specific_details undefined
  cloud_type
                                     ALLOWED:aws, azure, gcp, huggingface,
                           enum
                                     self_hosted
}
created_on
                strina
                          max:26 chars
                          max:1000 chars
description
                string
docker_env_vars {
}
filters
                          WRITE-ONLY
                string
                          max:2048 chars
```

```
format
                          ALLOWED: kitti, pascal_voc, raw, coco_raw, unet, coco,
                 enum
                          lprnet, train, test, default, custom, classification_pyt,
                          classification_tf2, visual_changenet_segment,
                          visual_changenet_classify, monai
                          max:36 chars
id
                 string
jobs [{
Array of object:
                            ALLOWED: dataset_convert, convert,
  action
                 enum
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert,
                            analyze, validate, generate, calibration_tensorfile,
                            annotation, nextimage, cacheimage, notify, auto3dseq
  created_on
                 string
                            max:26 chars
  dataset_id
                            max:36 chars
                 string
  description
                            max:1000 chars
                 string
                 string
                            max:36 chars
  job_tar_stats {
                   integer between 0 and 9223372036854776000
    file_size
                            max:64 chars
    sha256_digest string
                            max:26 chars
  last_modified string
  name
                 string
                            max:500 chars
  num_qpu
                 integer
                            between 0 and
                                            9223372036854776000
                            max:36 chars
  parent_id
                 string
  platform
                            ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
                 enum
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
     }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
         value
                   number
       }]
       metric
                string
                          max:100 chars
    }]
    cur_iter
                         integer
                                       between 0 and 9223372036854776000
    detailed_status {
                string max:26 chars
       message string max:6400 chars
       status
                string max:100 chars
       time
                string max:26 chars
     }
    epoch
                         integer
                                       between -1 and 9223372036854776000
                                       max:9223372036854776000 chars
    eta
                         string
    graphical [{
    Array of object:
       metric string
                       max:100 chars
                       max:100 chars
       units
              string
       values {
              integer between -9223372036854776000 and 9223372036854776000
       x_max
```

```
integer between -9223372036854776000 and 9223372036854776000
           x_min
           y_max
                   number
                   number
           y_min
         }]
                             number
         key_metric
         kpi [{
         Array of object:
           metric string max:100 chars
           values {
           }
         }]
                                           between 0 and 9223372036854776000
                              integer
         max_epoch
                                           max:9223372036854776000 chars
         message
                              string
         stats [{
         Array of object:
           metric string max:100 chars
           value string max:9223372036854776000 chars
         }]
         time_per_epoch
                                           max:9223372036854776000 chars
                              string
                                           max:9223372036854776000 chars
         time_per_iter
                              string
      }
                     undefined
      specs
      status
                      enum
                                ALLOWED: Done, Running, Error, Pending, Canceled
    }]
    last_modified
                               max:26 chars
                     string
    logo
                               max:2048 chars
                     string
    name
                               max:500 chars
                     string
                               ALLOWED:starting, in_progress, pull_complete, invalid_pull
    status
                     enum
                               ALLOWED: object_detection, semantic_segmentation,
    type
                     enum
                               image_classification, instance_segmentation,
                               character_recognition, action_recognition, pointpillars,
                               pose_classification, ml_recog, ocdnet, ocrnet,
                               optical_inspection, re_identification, visual_changenet,
                               centerpose, not_restricted, user_custom
                               WRITE-ONLY
    user_id
                     string
                               max:36 chars
                               max:10 chars
    version
                     string
 }
STATUS CODE - 400: Bad request, see reply body for details
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
STATUS CODE - 404: User or Dataset not found
 RESPONSE MODEL - application/json
 {
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string
                        max:1000 chars
 }
```

#### 2.7 GET /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs

#### **List Jobs for Dataset**

Returns the list of Jobs

#### **REQUEST**

#### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	string max:36 chars PATTERN: .*	ID for Dataset

#### **QUERY PARAMETERS**

NAME	TYPE	DESCRIPTION
skip	int32 between 0 and 2147483647	Optional skip for pagination
size	int32 between 0 and 2147483647	Optional size for pagination
sort	enum ALLOWED: date-descending, date-ascending	Optional sort

#### **RESPONSE**

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

#### RESPONSE MODEL - application/json

```
[ {
Array of object:
  action
                 enum
                            ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
                            train, evaluate, prune, retrain, export, gen_trt_engine,
                            trtexec, inference, batchinfer, augment,
                            annotation_format_convert, analyze, validate, generate,
                            calibration_tensorfile, annotation, nextimage, cacheimage,
                            notify, auto3dseg
                           max:26 chars
  created_on
                 string
  dataset_id
                           max:36 chars
                 string
  description
                 string
                           max:1000 chars
                           max:36 chars
  id
                 string
  job_tar_stats {
                   integer between 0 and 9223372036854776000
    file_size
    sha256_digest string
                           max:64 chars
  }
  last_modified string
                           max:26 chars
                           max:500 chars
  name
                 string
                           between 0 and 9223372036854776000
  num_gpu
                 integer
  parent_id
                           max:36 chars
                 string
                           ALLOWED:t4, 14, 140, a10, a30, a40, a100, v100
  platform
                 enum
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
```

```
}]
      categorical [{
      Array of object:
         category_wise_values [{
         Array of object:
           category string max:500 chars
                     number
         }]
                           max:100 chars
         metric
                  string
      }]
      cur_iter
                           integer
                                        between 0 and 9223372036854776000
      detailed_status {
         date
                 string max:26 chars
         message string max:6400 chars
         status
                string max:100 chars
         time
                 string max:26 chars
      }
                                         between -1 and 9223372036854776000
      epoch
                           integer
      eta
                           string
                                         max:9223372036854776000 chars
      graphical [{
      Array of object:
         metric string max:100 chars
         units
                string
                         max:100 chars
         values {
         }
                integer between -9223372036854776000 and 9223372036854776000
         x_max
                integer between -9223372036854776000 and 9223372036854776000
         x_min
                number
         y_max
         y_min
                number
      }]
      key_metric
                           number
      kpi [{
      Array of object:
         metric string max:100 chars
         values {
         }
      }]
      max_epoch
                           integer
                                         between 0 and 9223372036854776000
                                         max:9223372036854776000 chars
      message
                           string
      stats [{
      Array of object:
         metric string max:100 chars
         value string max:9223372036854776000 chars
      }]
                                         max:9223372036854776000 chars
      time_per_epoch
                           string
      time_per_iter
                           string
                                         max:9223372036854776000 chars
    }
    specs
                   undefined
    status
                   enum
                              ALLOWED: Done, Running, Error, Pending, Canceled
 }]
STATUS CODE - 404: User or Dataset not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

#### 2.8 POST /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs

#### **Run Dataset Jobs**

Asynchronously starts a dataset action and returns corresponding Job ID

#### REQUEST

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID for Dataset

```
REQUEST BODY - application/json
{
                           ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
  action
                 enum
                           train, evaluate, prune, retrain, export, gen_trt_engine,
                            trtexec, inference, batchinfer, augment,
                           annotation_format_convert, analyze, validate, generate,
                           calibration_tensorfile, annotation, nextimage, cacheimage,
                           notify, auto3dseg
                           max:1000 chars
  description
               string
  name
                           max:500 chars
                 string
  num_gpu
                 integer
                           between 0 and 9223372036854776000
  parent_job_id string
                           max:36 chars
  platform
                 enum
                           ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
                 undefined
  specs
}
```

#### **RESPONSE**

STATUS CODE - 201: Returned the Job ID corresponding to requested Dataset Action

```
RESPONSE MODEL - application/json
```

```
string
max:36 chars

STATUS CODE - 404: User or Dataset not found

RESPONSE MODEL - application/json
{
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
}
```

#### 2.9 GET /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs/{job\_id}

#### **Retrieve Job for Dataset**

Returns the Job

#### **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset
*job_id	uuid max:36 chars	Job ID

#### **RESPONSE**

```
STATUS CODE - 200: Returned Job
```

date

string max:26 chars message string max:6400 chars status string max:100 chars

```
RESPONSE MODEL - application/json
  action
                   enum
```

```
ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
                         train, evaluate, prune, retrain, export, gen_trt_engine,
                         trtexec, inference, batchinfer, augment,
                         annotation_format_convert, analyze, validate, generate,
                         calibration_tensorfile, annotation, nextimage, cacheimage,
                         notify, auto3dseg
created_on
                         max:26 chars
              string
dataset_id
                         max:36 chars
              string
description
                         max:1000 chars
              strina
                         max:36 chars
              string
job_tar_stats {
                 integer between 0 and 9223372036854776000
  file_size
  sha256_digest string
                         max:64 chars
}
last_modified string
                         max:26 chars
name
               string
                         max:500 chars
                         between 0 and 9223372036854776000
num_gpu
               integer
parent_id
                         max:36 chars
              string
                         ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
platform
              enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
    category_wise_values [{
    Array of object:
       category string max:500 chars
                number
       value
    }]
    metric
              strina
                       max:100 chars
  }]
  cur_iter
                                    between 0 and 9223372036854776000
                       integer
  detailed_status {
```

```
string max:26 chars
         time
      }
                                        between -1 and 9223372036854776000
      epoch
                           integer
      eta
                                        max:9223372036854776000 chars
                           string
      graphical [{
      Array of object:
         metric string max:100 chars
         units
               string max:100 chars
         values {
         }
         x_max
                integer between -9223372036854776000 and 9223372036854776000
                integer between -9223372036854776000 and 9223372036854776000
         x_min
                number
         y_max
         y_min
                number
      }]
      key_metric
                           number
      kpi [{
      Array of object:
        metric string max:100 chars
         values {
         }
      }]
                                        between 0 and 9223372036854776000
      max_epoch
                           integer
                                        max:9223372036854776000 chars
      message
                           string
      stats [{
      Array of object:
         metric string max:100 chars
                string max:9223372036854776000 chars
      }]
      time_per_epoch
                           string
                                        max:9223372036854776000 chars
      time_per_iter
                           string
                                        max:9223372036854776000 chars
    }
                   undefined
    specs
    status
                   enum
                              ALLOWED: Done, Running, Error, Pending, Canceled
 }
STATUS CODE - 404: User, Dataset or Job not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

#### 2.10 DELETE /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs/{job\_id}

#### **Delete Dataset Job**

delete Dataset Job

#### **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name

NAME	TYPE	DESCRIPTION
*dataset_id	uuid max:36 chars	ID for Dataset
*job_id	uuid max:36 chars	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 between -9223372036854776000 and error_desc string max:1000 chars
}

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

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and error_desc string max:1000 chars
}
```

## 2.11 POST /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs/ {job\_id}:cancel

**Cancel Dataset Job** 

#### **REQUEST**

#### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID for Dataset
*job_id	uuid max:36 chars	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 between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
```

### 2.12 GET /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs/ {job\_id}:download

#### **Download Job Artifacts**

Download the Artifacts produced by a given job

#### **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset
*job_id	uuid max:36 chars	Job ID

#### **RESPONSE**

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

```
RESPONSE MODEL - application/octet-stream
```

```
max:1000 chars
STATUS CODE - 404: User, Dataset or Job not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

## 2.13 GET /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/jobs/ {job\_id}:status\_update

#### Posts status for the job

Saves recieved content to status file

#### **REQUEST**

#### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset
*job_id	uuid max:36 chars	Job ID

#### **RESPONSE**

#### STATUS CODE - 200: Returned Job

```
RESPONSE MODEL - application/json
  action
                 enum
                            ALLOWED: dataset_convert, convert, convert_efficientdet_tf2,
                            train, evaluate, prune, retrain, export, gen_trt_engine,
                            trtexec, inference, batchinfer, augment,
                            annotation_format_convert, analyze, validate, generate,
                            calibration_tensorfile, annotation, nextimage, cacheimage,
                            notify, auto3dseg
  created_on
                            max:26 chars
                 string
  dataset id
                            max:36 chars
                 string
  description
                            max:1000 chars
                 string
                            max:36 chars
                 string
  job_tar_stats {
                    integer between 0 and
                                            9223372036854776000
    file_size
     sha256_digest string
                            max:64 chars
  }
                            max:26 chars
  last_modified string
  name
                 strina
                            max:500 chars
                            between 0 and
                                           9223372036854776000
  num_gpu
                 integer
  parent_id
                 string
                            max:36 chars
  platform
                 enum
                            ALLOWED: 14, 140, a10, a30, a40, a100, v100
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
                   number
         value
       }]
       metric
                string
                          max:100 chars
    }]
    cur_iter
                                       between 0 and 9223372036854776000
                         integer
    detailed_status {
       date
                string max:26 chars
       message string max:6400 chars
       status string max:100 chars
       time
                string max:26 chars
     }
                                       between -1 and 9223372036854776000
    epoch
                         integer
    eta
                         string
                                       max:9223372036854776000 chars
    graphical [{
     Array of object:
                       max:100 chars
       metric string
                       max:100 chars
       units
              string
       values {
       }
               integer between -9223372036854776000 and
                                                           9223372036854776000
       x max
               integer between -9223372036854776000 and
                                                           9223372036854776000
       x_min
```

```
y_max
               number
               number
         y_min
      }]
      key_metric
                           number
      kpi [{
      Array of object:
         metric string max:100 chars
         values {
         }
      }]
      max_epoch
                           integer
                                         between 0 and 9223372036854776000
                                         max:9223372036854776000 chars
      message
                           string
      stats [{
      Array of object:
         metric string max:100 chars
               string max:9223372036854776000 chars
      }]
                                         max:9223372036854776000 chars
      time_per_epoch
                           string
      time_per_iter
                                         max:9223372036854776000 chars
                           string
    }
    specs
                   undefined
                              ALLOWED: Done, Running, Error, Pending, Canceled
    status
                   enum
 }
STATUS CODE - 404: User, Dataset or Job not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

## 2.14 GET /api/v1/orgs/{org\_name}/datasets/{dataset\_id}/specs/{action}/ schema

#### Retrieve Specs schema

Returns the Specs schema for a given action

#### **REQUEST**

#### PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_i d	uuid max:36 chars	ID for Dataset
*action	enum ALLOWED: dataset_convert, convert, convert_efficientdet_tf2, kmeans, augment, train, evaluate, prune, retrain, export, gen_trt_engine, trtexec, inference, annotation, analyze, validate, generate, calibration_tensorfile	Action name

#### **RESPONSE**

```
RESPONSE MODEL - application/json

{
}

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

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```

## 3. DATASET

```
3.1 GET /api/v1/orgs/{org_name}/datasets/{dataset_id}/jobs/
{job_id}:log_update
```

#### Posts log for the job

Saves recieved content to log file

#### **REQUEST**

#### PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*dataset_id	uuid max:36 chars	ID of Dataset
*job_id	uuid max:36 chars	Job ID

#### **RESPONSE**

```
STATUS CODE - 200: Returned Job
```

```
RESPONSE MODEL - application/json
```

```
action
              enum
                         ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
                         train, evaluate, prune, retrain, export, gen_trt_engine,
                         trtexec, inference, batchinfer, augment,
                         annotation_format_convert, analyze, validate, generate,
                         calibration_tensorfile, annotation, nextimage, cacheimage,
                         notify, auto3dseg
created_on
                         max:26 chars
              string
dataset_id
              string
                         max:36 chars
                         max:1000 chars
description
              string
id
                         max:36 chars
              string
job_tar_stats {
  file_size
                 integer between 0 and 9223372036854776000
  sha256_digest string
                         max:64 chars
}
                         max:26 chars
last_modified string
                         max:500 chars
name
              string
num_gpu
              integer
                         between 0 and 9223372036854776000
parent_id
              string
                         max:36 chars
platform
                         ALLOWED: 14, 140, a10, a30, a40, a100, v100
              enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
```

```
category_wise_values [{
         Array of object:
           category string max:500 chars
                   number
           value
         }]
         metric
                  string
                         max:100 chars
      }]
      cur_iter
                           integer
                                       between 0 and 9223372036854776000
      detailed_status {
                 string max:26 chars
         message string max:6400 chars
         status string max:100 chars
         time
                 string max:26 chars
      }
      epoch
                           integer
                                        between -1 and 9223372036854776000
      eta
                           string
                                        max:9223372036854776000 chars
      graphical [{
      Array of object:
         metric string max:100 chars
         units string max:100 chars
         values {
         }
        x max
                integer between -9223372036854776000 and 9223372036854776000
         x_min
                integer between -9223372036854776000 and 9223372036854776000
                number
         y_max
        y_min
               number
      } ]
      key_metric
                          number
      kpi [{
      Array of object:
         metric string max:100 chars
        values {
         }
      }]
                                        between 0 and 9223372036854776000
      max_epoch
                           integer
                                        max:9223372036854776000 chars
      message
                           string
      stats [{
      Array of object:
         metric string max:100 chars
         value string max:9223372036854776000 chars
      }]
      time_per_epoch
                           string
                                        max:9223372036854776000 chars
      time_per_iter
                           string
                                        max:9223372036854776000 chars
    }
                  undefined
    specs
    status
                   enum
                             ALLOWED: Done, Running, Error, Pending, Canceled
 }
STATUS CODE - 404: User, Dataset or Job not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

## 4. EXPERIMENT

#### **Endpoints related to Experiments**

### 4.1 GET /api/v1/orgs/{org\_name}/experiments

#### **List Experiments**

Returns the list of Experiments

#### **REQUEST**

#### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name

#### **QUERY PARAMETERS**

NAME	ТҮРЕ	DESCRIPTION
skip	int32 between 0 and 2147483647	Optional skip for pagination
size	int32 between 0 and 2147483647	Optional size for pagination
sort	enum ALLOWED: date-descending, date-ascending, name-descending, name-ascending	Optional sort
name	string max:5000 chars PATTERN:.*	Optional name filter
type	enum ALLOWED: vision, medical	Optional type filter
arch	enum ALLOWED: detectnet_v2	Optional network architecture filter
read_only	boolean	Optional read_only filter
user_only	boolean	Optional filter to select user owned experiments only

#### **RESPONSE**

STATUS CODE - 200: Returned the list of Experiments

**RESPONSE MODEL - application/json** 

[ {

Array of object:

actions

[enum]

ALLOWED:dataset\_convert, convert, convert\_efficientdet\_tf2, train, evaluate, prune, retrain, export, gen\_trt\_engine, trtexec, inference, batchinfer, augment, annotation\_format\_convert, analyze, validate, generate, calibration\_tensorfile, annotation, nextimage, cacheimage, notify,

auto3dseg additional\_id\_info max:100 chars string automl\_settings { integer between 0 and 9223372036854776000 automl R automl\_add\_hyperparameters max:5000 chars string automl\_algorithm enum ALLOWED:bayesian, hyperband automl\_delete\_intermediate\_ckpt boolean automl\_enabled boolean automl\_max\_recommendations integer between 0 and 9223372036854776000 automl\_nu integer between 0 and 9223372036854776000 automl\_remove\_hyperparameters string max:5000 chars epoch\_multiplier integer between 0 and 9223372036854776000 override\_automl\_disabled\_params boolean max:1000 chars backbone\_class string backbone\_type string max:1000 chars [string] max:36 chars base\_experiment base\_experiment\_pull\_complete enum ALLOWED:starting, in\_progress, pull\_complete, invalid\_pull bundle\_url max:1000 chars string calibration\_dataset string max:36 chars checkpoint\_choose\_method ALLOWED: latest\_model, best\_model, enum from\_epoch\_number checkpoint\_epoch\_number { } cloud\_details { cloud\_file\_type enum ALLOWED: file, folder cloud\_specific\_details undefined cloud\_type enum ALLOWED:aws, azure, gcp, huggingface, self\_hosted } created\_on string max:26 chars dataset\_formats [enum] ALLOWED: kitti, pascal\_voc, raw, coco\_raw, unet, coco, lprnet, train, test, default, custom, classification\_pyt, classification\_tf2, visual\_changenet\_segment, visual\_changenet\_classify, monai ALLOWED: object\_detection, dataset\_type enum semantic\_segmentation, image\_classification, instance\_segmentation, character\_recognition, action\_recognition, pointpillars, pose\_classification, ml\_recog, ocdnet, ocrnet, optical\_inspection, re\_identification, visual\_changenet, centerpose, not\_restricted, user\_custom max:1000 chars description string docker\_env\_vars { } max:1000 chars domain string encryption\_key string max:100 chars eval dataset max:36 chars string id max:36 chars string inference\_dataset max:36 chars string is\_ptm\_backbone boolean iobs [{

Array of object:

```
action
               enum
                          ALLOWED: dataset_convert, convert,
                          convert_efficientdet_tf2, train, evaluate, prune,
                          retrain, export, gen_trt_engine, trtexec, inference,
                          batchinfer, augment, annotation_format_convert, analyze,
                          validate, generate, calibration_tensorfile, annotation,
                          nextimage, cacheimage, notify, auto3dseg
created_on
               string
                          max:26 chars
                          max:1000 chars
description
               string
experiment_id string
                          max:36 chars
                          max:36 chars
               string
job_tar_stats {
                 integer between 0 and 9223372036854776000
  file_size
                          max:64 chars
  sha256_digest string
                          max:26 chars
last_modified string
name
               string
                          max:500 chars
num_qpu
               integer
                          between 0 and
                                         9223372036854776000
                          max:36 chars
parent_id
               string
platform
               enum
                          ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
     value number
  }]
  categorical [{
  Array of object:
     category_wise_values [{
    Array of object:
       category string max:500 chars
       value
                 number
     }]
                       max:100 chars
    metric
              string
  }]
  cur_iter
                       integer
                                    between 0 and 9223372036854776000
  detailed_status {
    date
             string max:26 chars
    message string max:6400 chars
             string max:100 chars
     status
     time
             string max:26 chars
  }
  epoch
                       integer
                                    between -1 and 9223372036854776000
  eta
                                    max:9223372036854776000 chars
                       string
  graphical [{
  Array of object:
    metric string
                     max:100 chars
     units string
                     max:100 chars
     values {
     }
            integer between -9223372036854776000 and
                                                         9223372036854776000
    x_max
            integer between -9223372036854776000 and
                                                         9223372036854776000
    x min
            number
    y_max
            number
     y_min
  }]
  key_metric
                       number
  kpi [{
  Array of object:
```

```
metric string max:100 chars
         values {
         }
       }]
                                         between 0 and 9223372036854776000
                           integer
       max_epoch
       message
                           string
                                         max:9223372036854776000 chars
       stats [{
       Array of object:
         metric string max:100 chars
         value string max:9223372036854776000 chars
       }]
                                        max:9223372036854776000 chars
       time_per_epoch
                           string
                                         max:9223372036854776000 chars
       time_per_iter
                           string
                   undefined
    specs
    status
                   enum
                              ALLOWED: Done, Running, Error, Pending, Canceled
    sync
                   boolean
  }]
  last_modified
                                   string
                                            max:26 chars
  license
                                            max:1000 chars
                                   string
  logo
                                   string
                                            max:2048 chars
                                            max:100 chars
  metric
                                   string
  model_params {
  }
                                            max:500 chars
  name
                                   string
  network_arch
                                   enum
                                            ALLOWED: detectnet_v2, unet,
                                            classification_tf2, efficientdet_tf2,
                                            action_recognition, classification_pyt,
                                            mal, ml_recog, ocdnet, ocrnet,
                                            optical_inspection, pointpillars,
                                            pose_classification, re_identification,
                                            deformable_detr, dino, segformer,
                                            visual_changenet, centerpose, auto_label,
                                            image, monai_vista3d, monai_vista2d,
                                            monai_segmentation, monai_annotation,
                                            monai_classification, monai_detection,
                                            monai_automl, monai_custom, monai_genai
                                            max:250 chars
  ngc_path
                                   string
  public
                                   boolean
  read_only
                                   boolean
  realtime_infer
                                   boolean
  realtime_infer_endpoint
                                            WRITE-ONLY
                                   string
                                            max:1000 chars
  realtime_infer_model_name
                                            WRITE-ONLY
                                   string
                                            max:1000 chars
  realtime_infer_request_timeout integer
                                            between 0 and 86400
  realtime_infer_support
                                   boolean
  sha256_digest {
  }
  spec_file_present
                                   boolean
  task
                                   string
                                            max:1000 chars
  train_datasets
                                   [string] max:36 chars
                                            ALLOWED: vision, medical
  type
                                   enum
  user_id
                                            WRITE-ONLY
                                   string
                                            max:36 chars
                                            max:500 chars
  version
                                   string
} ]
```

# 4.2 POST /api/v1/orgs/{org\_name}/experiments

## **Create new Experiment**

Returns the new Experiment

### **REQUEST**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name

```
REQUEST BODY - application/json
{
  additional_id_info
                                   string
                                            max:100 chars
  automl_settings {
    automl_R
                                      integer between 0 and 9223372036854776000
    automl_add_hyperparameters
                                              max:5000 chars
                                      string
                                              ALLOWED: bayesian, hyperband
    automl_algorithm
                                      enum
    automl_delete_intermediate_ckpt boolean
    automl_enabled
                                      boolean
    automl_max_recommendations
                                      integer between 0 and 9223372036854776000
    automl_nu
                                      integer between 0 and 9223372036854776000
    automl_remove_hyperparameters
                                      string max:5000 chars
    epoch_multiplier
                                      integer between 0 and 9223372036854776000
    override_automl_disabled_params boolean
  }
  base_experiment
                                   [string] max:36 chars
  base_experiment_pull_complete
                                            ALLOWED:starting, in_progress, pull_complete,
                                   enum
                                            invalid_pull
  bundle url
                                            max:1000 chars
                                   string
                                            max:36 chars
  calibration_dataset
                                   string
                                            ALLOWED: latest_model, best_model,
  checkpoint_choose_method
                                   enum
                                            from_epoch_number
  checkpoint_epoch_number {
  cloud_details {
    cloud_file_type
                                       ALLOWED: file, folder
                            enum
    cloud_specific_details undefined
    cloud_type
                            enum
                                       ALLOWED:aws, azure, gcp, huggingface, self_hosted
  }
                                            max:1000 chars
  description
                                   string
  docker_env_vars {
                                            max:100 chars
  encryption_key
                                   string
  eval_dataset
                                            max:36 chars
                                   string
  inference_dataset
                                            max:36 chars
                                   string
  is_ptm_backbone
                                  boolean
  logo
                                   string
                                            max:2048 chars
                                            max:100 chars
  metric
                                   string
  model_params {
  }
                                            max:500 chars
  name
                                   string
  network_arch
                                   enum
                                            ALLOWED: detectnet_v2, unet,
                                            classification_tf2, efficientdet_tf2,
```

```
action_recognition, classification_pyt, mal,
                                              ml_recog, ocdnet, ocrnet,
                                              optical_inspection, pointpillars,
                                              pose_classification, re_identification,
                                              deformable_detr, dino, segformer,
                                              visual_changenet, centerpose, auto_label,
                                              image, monai_vista3d, monai_vista2d,
                                              monai_segmentation, monai_annotation,
                                              monai_classification, monai_detection,
                                              monai_automl, monai_custom, monai_genai
    ngc_path
                                    string
                                              max:250 chars
    public
                                    boolean
    read_only
                                    boolean
    realtime_infer
                                    boolean
    realtime_infer_request_timeout integer
                                              between 0 and 9223372036854776000
    sha256_digest {
    spec_file_present
                                    boolean
    train_datasets
                                    [string] max:36 chars
                                              ALLOWED: vision, medical
    type
                                    enum
    user_id
                                    string
                                              max:36 chars
    version
                                              max:500 chars
                                    string
 }
RESPONSE
 STATUS CODE - 201: Returned the new Experiment
   RESPONSE MODEL - application/json
   {
     actions
                                      [enum]
                                               ALLOWED:dataset_convert, convert,
                                               convert_efficientdet_tf2, train, evaluate,
                                               prune, retrain, export, gen_trt_engine,
                                               trtexec, inference, batchinfer, augment,
                                               annotation_format_convert, analyze,
                                               validate, generate,
                                               calibration_tensorfile, annotation,
                                               nextimage, cacheimage, notify, auto3dseg
     additional_id_info
                                      string
                                               max:100 chars
     automl_settings {
        automl_R
                                         integer between 0 and 9223372036854776000
        automl_add_hyperparameters
                                                  max:5000 chars
        automl_algorithm
                                                  ALLOWED: bayesian, hyperband
                                         enum
        automl_delete_intermediate_ckpt boolean
        automl_enabled
                                         boolean
        automl_max_recommendations
                                         integer between 0 and 9223372036854776000
        automl_nu
                                         integer between 0 and 9223372036854776000
        automl_remove_hyperparameters
                                         strina
                                                 max:5000 chars
        epoch_multiplier
                                         integer between 0 and 9223372036854776000
        override_automl_disabled_params boolean
     }
     backbone_class
                                               max:1000 chars
                                      string
     backbone_type
                                      string
                                               max:1000 chars
     base_experiment
                                      [string] max:36 chars
     base_experiment_pull_complete
                                               ALLOWED:starting, in_progress,
                                      enum
                                               pull_complete, invalid_pull
     bundle_url
                                               max:1000 chars
                                      string
```

```
calibration_dataset
                                          max:36 chars
                                string
checkpoint_choose_method
                                enum
                                          ALLOWED: latest_model, best_model,
                                          from_epoch_number
checkpoint_epoch_number {
cloud_details {
  cloud_file_type
                          enum
                                     ALLOWED: file, folder
  cloud_specific_details undefined
  cloud_type
                                     ALLOWED:aws, azure, gcp, huggingface,
                          enum
                                     self_hosted
created_on
                                          max:26 chars
                                string
dataset_formats
                                [enum]
                                          ALLOWED: kitti, pascal_voc, raw, coco_raw,
                                          unet, coco, lprnet, train, test, default,
                                          custom, classification_pyt,
                                          classification_tf2,
                                          visual_changenet_segment,
                                          visual_changenet_classify, monai
dataset_type
                                enum
                                          ALLOWED: object_detection,
                                          semantic_segmentation,
                                          image_classification,
                                          instance_segmentation,
                                          character_recognition, action_recognition,
                                          pointpillars, pose_classification,
                                          ml_recog, ocdnet, ocrnet,
                                          optical_inspection, re_identification,
                                          visual_changenet, centerpose,
                                          not_restricted, user_custom
description
                                          max:1000 chars
                                string
docker_env_vars {
}
                                          max:1000 chars
domain
                                string
encryption_key
                                          max:100 chars
                                string
eval_dataset
                                          max:36 chars
                                string
                                          max:36 chars
id
                                string
inference_dataset
                                          max:36 chars
                                string
is_ptm_backbone
                                boolean
jobs [{
Array of object:
  action
                 enum
                            ALLOWED: dataset_convert, convert,
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert,
                            analyze, validate, generate, calibration_tensorfile,
                            annotation, nextimage, cacheimage, notify, auto3dseg
  created_on
                 string
                           max:26 chars
  description
                           max:1000 chars
                 strina
  experiment_id string
                           max:36 chars
  id
                           max:36 chars
                 string
  job_tar_stats {
                   integer between 0 and 9223372036854776000
    file_size
    sha256_digest string
                            max:64 chars
                           max:26 chars
  last_modified string
                           max:500 chars
  name
                 string
                 integer
                           between 0 and 9223372036854776000
  num_gpu
  parent_id
                 string
                           max:36 chars
```

```
platform
                          ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
               enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
     category_wise_values [{
    Array of object:
       category string max:500 chars
       value
                 number
     }]
                       max:100 chars
    metric
              string
  }]
  cur_iter
                       integer
                                     between 0 and 9223372036854776000
  detailed_status {
    date
             string max:26 chars
    message string max:6400 chars
             string max:100 chars
             string max:26 chars
     time
  }
  epoch
                       integer
                                     between -1 and 9223372036854776000
                                     max:9223372036854776000 chars
  eta
                       string
  graphical [{
  Array of object:
    metric string
                     max:100 chars
                     max:100 chars
    units string
    values {
     }
    x_max
            integer between -9223372036854776000 and 9223372036854776000
            integer between -9223372036854776000 and
                                                        9223372036854776000
    x_min
    y_max
            number
    y_min
            number
  }]
  key_metric
                       number
  kpi [{
  Array of object:
    metric string max:100 chars
    values {
     }
  }]
                                     between 0 and 9223372036854776000
  max_epoch
                       integer
  message
                       string
                                     max:9223372036854776000 chars
  stats [{
  Array of object:
    metric string max:100 chars
    value string max:9223372036854776000 chars
  }]
                                    max:9223372036854776000 chars
  time_per_epoch
                       string
                                    max:9223372036854776000 chars
  time_per_iter
                       string
}
               undefined
specs
status
               enum
                          ALLOWED: Done, Running, Error, Pending, Canceled
               boolean
sync
```

}]

```
last_modified
                                              max:26 chars
                                     string
    license
                                              max:1000 chars
                                     string
                                              max:2048 chars
    logo
                                     string
    metric
                                              max:100 chars
                                     string
    model_params {
    }
                                              max:500 chars
    name
                                     string
    network_arch
                                              ALLOWED: detectnet_v2, unet,
                                     enum
                                              classification_tf2, efficientdet_tf2,
                                              action_recognition, classification_pyt,
                                              mal, ml_recog, ocdnet, ocrnet,
                                              optical_inspection, pointpillars,
                                              pose_classification, re_identification,
                                              deformable_detr, dino, segformer,
                                              visual_changenet, centerpose, auto_label,
                                              image, monai_vista3d, monai_vista2d,
                                              monai_segmentation, monai_annotation,
                                              monai_classification, monai_detection,
                                              monai_automl, monai_custom, monai_genai
                                              max:250 chars
    ngc_path
                                     string
    public
                                     boolean
    read_only
                                     boolean
    realtime_infer
                                     boolean
    realtime_infer_endpoint
                                     string
                                              WRITE-ONLY
                                              max:1000 chars
    realtime_infer_model_name
                                     string
                                              WRITE-ONLY
                                              max:1000 chars
    realtime_infer_request_timeout integer
                                              between 0 and 86400
    realtime_infer_support
                                     boolean
    sha256_digest {
    }
    spec_file_present
                                     boolean
                                              max:1000 chars
    task
                                     string
    train_datasets
                                     [string] max:36 chars
                                              ALLOWED: vision, medical
    type
                                     enum
    user_id
                                              WRITE-ONLY
                                     string
                                              max:36 chars
                                              max:500 chars
    version
                                     string
 }
STATUS CODE - 400: Bad request, see reply body for details
 RESPONSE MODEL - application/json
 {
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

## 4.3 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}

### **Retrieve Experiment**

Returns the Experiment

### **REQUEST**

NAME	TYPE	DESCRIPTION

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment to return

### **RESPONSE**

```
STATUS CODE - 200: Returned the Experiment
 RESPONSE MODEL - application/json
    actions
                                    [enum]
                                              ALLOWED: dataset_convert, convert,
                                              convert_efficientdet_tf2, train, evaluate,
                                              prune, retrain, export, gen_trt_engine,
                                              trtexec, inference, batchinfer, augment,
                                              annotation_format_convert, analyze,
                                              validate, generate, calibration_tensorfile,
                                              annotation, nextimage, cacheimage, notify,
                                              auto3dseg
    additional_id_info
                                              max:100 chars
                                    string
    automl_settings {
                                        integer between 0 and 9223372036854776000
      automl_R
      automl_add_hyperparameters
                                                max:5000 chars
                                        string
      automl_algorithm
                                        enum
                                                ALLOWED: bayesian, hyperband
      automl_delete_intermediate_ckpt boolean
      automl_enabled
                                        boolean
                                        integer between 0 and 9223372036854776000
      automl_max_recommendations
      automl_nu
                                        integer between 0 and 9223372036854776000
      automl_remove_hyperparameters
                                        string
                                                max:5000 chars
      epoch_multiplier
                                        integer between 0 and 9223372036854776000
      override_automl_disabled_params boolean
    }
    backbone_class
                                              max:1000 chars
                                    string
    backbone_type
                                              max:1000 chars
                                    string
                                    [string] max:36 chars
    base_experiment
    base_experiment_pull_complete
                                              ALLOWED:starting, in_progress, pull_complete,
                                    enum
                                              invalid_pull
    bundle_url
                                              max:1000 chars
                                    string
    calibration_dataset
                                              max:36 chars
                                    string
    checkpoint_choose_method
                                              ALLOWED: latest_model, best_model,
                                    enum
                                              from_epoch_number
    checkpoint_epoch_number {
    cloud_details {
      cloud_file_type
                                         ALLOWED: file, folder
                              enum
      cloud_specific_details undefined
                                         ALLOWED:aws, azure, gcp, huggingface, self_hosted
      cloud_type
                              enum
    }
    created_on
                                    string
                                              max:26 chars
                                              ALLOWED: kitti, pascal_voc, raw, coco_raw,
    dataset_formats
                                    [enum]
                                              unet, coco, lprnet, train, test, default,
                                              custom, classification_pyt,
                                              classification_tf2,
```

visual\_changenet\_segment,

```
visual_changenet_classify, monai
dataset_type
                                          ALLOWED: object_detection,
                                 enum
                                          semantic_segmentation,
                                           image_classification,
                                           instance_segmentation,
                                          character_recognition, action_recognition,
                                          pointpillars, pose_classification,
                                          ml_recog, ocdnet, ocrnet,
                                          optical_inspection, re_identification,
                                          visual_changenet, centerpose,
                                          not_restricted, user_custom
                                          max:1000 chars
description
                                 string
docker_env_vars {
domain
                                          max:1000 chars
                                 string
encryption_key
                                 string
                                          max:100 chars
eval_dataset
                                 string
                                          max:36 chars
id
                                          max:36 chars
                                 string
inference_dataset
                                 string
                                          max:36 chars
is_ptm_backbone
                                 boolean
jobs [{
Array of object:
                            ALLOWED:dataset_convert, convert,
  action
                 enum
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert, analyze,
                            validate, generate, calibration_tensorfile, annotation,
                            nextimage, cacheimage, notify, auto3dseg
  created_on
                            max:26 chars
                 string
                            max:1000 chars
  description
                 string
                            max:36 chars
  experiment_id string
                            max:36 chars
  id
                 string
  job_tar_stats {
                    integer between 0 and 9223372036854776000
    file_size
     sha256_digest string
                            max:64 chars
  }
  last modified string
                            max:26 chars
                            max:500 chars
  name
                 string
                            between 0 and
                                           9223372036854776000
  num_gpu
                 integer
  parent_id
                 string
                            max:36 chars
  platform
                 enum
                            ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
                   number
         value
       }]
       metric
                string
                          max:100 chars
     }]
                                       between 0 and 9223372036854776000
    cur_iter
                         integer
```

```
detailed_status {
       date
                string max:26 chars
       message string max:6400 chars
               string max:100 chars
       status
                string max:26 chars
       time
    }
                                      between -1 and 9223372036854776000
    epoch
                         integer
                                      max:9223372036854776000 chars
    eta
                         string
    graphical [{
    Array of object:
       metric string
                       max:100 chars
       units string
                       max:100 chars
       values {
       }
              integer between -9223372036854776000 and
                                                          9223372036854776000
       x_max
       x_min
              integer between -9223372036854776000 and
                                                          9223372036854776000
       y_max
              number
              number
       y_min
    }]
                         number
    key_metric
    kpi [{
    Array of object:
       metric string max:100 chars
       values {
       }
    }]
    max_epoch
                         integer
                                      between 0 and 9223372036854776000
                                      max:9223372036854776000 chars
    message
                         string
    stats [{
    Array of object:
       metric string max:100 chars
       value string max:9223372036854776000 chars
    }]
    time_per_epoch
                         string
                                      max:9223372036854776000 chars
                                      max:9223372036854776000 chars
    time_per_iter
                         string
  }
                 undefined
  specs
  status
                 enum
                            ALLOWED: Done, Running, Error, Pending, Canceled
                 boolean
  sync
}]
last modified
                                strina
                                          max:26 chars
license
                                          max:1000 chars
                                string
logo
                                          max:2048 chars
                                string
metric
                                          max:100 chars
                                string
model_params {
}
                                          max:500 chars
name
                                string
network_arch
                                          ALLOWED: detectnet_v2, unet,
                                enum
                                          classification_tf2, efficientdet_tf2,
                                          action_recognition, classification_pyt,
                                          mal, ml_recog, ocdnet, ocrnet,
                                          optical_inspection, pointpillars,
                                          pose_classification, re_identification,
                                          deformable_detr, dino, segformer,
                                          visual_changenet, centerpose, auto_label,
                                          image, monai_vista3d, monai_vista2d,
                                          monai_segmentation, monai_annotation,
```

```
monai_classification, monai_detection,
                                               monai_automl, monai_custom, monai_genai
    ngc_path
                                               max:250 chars
                                     string
    public
                                     boolean
                                     boolean
    read_only
    realtime_infer
                                     boolean
    realtime_infer_endpoint
                                     string
                                               WRITE-ONLY
                                               max:1000 chars
    realtime_infer_model_name
                                               WRITE-ONLY
                                     string
                                               max:1000 chars
    realtime_infer_request_timeout integer
                                               between 0 and 86400
    realtime_infer_support
                                     boolean
    sha256_digest {
                                     boolean
    spec_file_present
    task
                                     string
                                               max:1000 chars
    train_datasets
                                     [string] max:36 chars
                                               ALLOWED: vision, medical
    type
                                     enum
    user_id
                                               WRITE-ONLY
                                     string
                                               max:36 chars
                                              max:500 chars
    version
                                     string
 }
STATUS CODE - 404: User or Experiment not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

# 4.4 PUT /api/v1/orgs/{org\_name}/experiments/{experiment\_id}

## **Update Experiment**

Returns the updated Experiment

### **REQUEST**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment to update

```
REQUEST BODY - application/json
  additional_id_info
                                   string
                                             max:100 chars
  automl_settings {
    automl_R
                                      integer between 0 and 9223372036854776000
    automl_add_hyperparameters
                                              max:5000 chars
                                      string
                                              ALLOWED:bayesian, hyperband
    automl_algorithm
                                      enum
    automl_delete_intermediate_ckpt boolean
    automl_enabled
                                      boolean
```

```
automl_max_recommendations
                                   integer between 0 and 9223372036854776000
  automl_nu
                                   integer between 0 and
                                                           9223372036854776000
  automl_remove_hyperparameters
                                   string max:5000 chars
  epoch_multiplier
                                   integer between 0 and 9223372036854776000
  override_automl_disabled_params boolean
}
base_experiment
                                [string] max:36 chars
base_experiment_pull_complete
                                          ALLOWED:starting, in_progress, pull_complete,
                                enum
                                          invalid_pull
bundle_url
                                          max:1000 chars
                                string
calibration_dataset
                                string
                                          max:36 chars
checkpoint_choose_method
                                          ALLOWED: latest_model, best_model,
                                enum
                                          from_epoch_number
checkpoint_epoch_number {
}
cloud_details {
  cloud_file_type
                          enum
                                    ALLOWED: file, folder
  cloud_specific_details undefined
  cloud_type
                          enum
                                    ALLOWED:aws, azure, gcp, huggingface, self_hosted
}
description
                                string
                                          max:1000 chars
docker_env_vars {
encryption_key
                                          max:100 chars
                                string
eval_dataset
                                          max:36 chars
                                string
inference_dataset
                                          max:36 chars
                                string
is_ptm_backbone
                                boolean
logo
                                          max:2048 chars
                                string
metric
                                          max:100 chars
                                string
model_params {
}
                                          max:500 chars
name
                                string
network_arch
                                          ALLOWED: detectnet_v2, unet,
                                enum
                                          classification_tf2, efficientdet_tf2,
                                          action_recognition, classification_pyt, mal,
                                          ml_recog, ocdnet, ocrnet,
                                          optical_inspection, pointpillars,
                                          pose_classification, re_identification,
                                          deformable_detr, dino, segformer,
                                          visual_changenet, centerpose, auto_label,
                                          image, monai_vista3d, monai_vista2d,
                                          monai_segmentation, monai_annotation,
                                          monai_classification, monai_detection,
                                          monai_automl, monai_custom, monai_genai
                                          max:250 chars
ngc_path
                                string
                                boolean
public
                                boolean
read_only
realtime_infer
                                boolean
realtime_infer_request_timeout integer
                                          between 0 and 9223372036854776000
sha256_digest {
spec_file_present
                                boolean
train_datasets
                                [string] max:36 chars
                                          ALLOWED: vision, medical
type
                                enum
user_id
                                          max:36 chars
                                string
version
                                string
                                          max:500 chars
```

}

## **RESPONSE**

### STATUS CODE - 200: Returned the updated Experiment

```
RESPONSE MODEL - application/json
  actions
                                   [enum]
                                            ALLOWED: dataset_convert, convert,
                                            convert_efficientdet_tf2, train, evaluate,
                                            prune, retrain, export, gen_trt_engine,
                                            trtexec, inference, batchinfer, augment,
                                            annotation_format_convert, analyze,
                                            validate, generate,
                                            calibration_tensorfile, annotation,
                                            nextimage, cacheimage, notify, auto3dseg
  additional_id_info
                                            max:100 chars
                                  string
  automl_settings {
                                      integer between 0 and 9223372036854776000
    automl_R
                                              max:5000 chars
    automl_add_hyperparameters
                                      string
                                               ALLOWED: bayesian, hyperband
    automl_algorithm
                                      enum
    automl_delete_intermediate_ckpt boolean
    automl_enabled
                                      boolean
                                      integer between 0 and 9223372036854776000
    automl max recommendations
    automl_nu
                                      integer between 0 and 9223372036854776000
    automl_remove_hyperparameters
                                      string
                                              max:5000 chars
    epoch_multiplier
                                      integer between 0 and 9223372036854776000
    override_automl_disabled_params boolean
  }
  backbone_class
                                  string
                                            max:1000 chars
  backbone_type
                                  string
                                            max:1000 chars
  base_experiment
                                  [string] max:36 chars
  base_experiment_pull_complete
                                  enum
                                            ALLOWED:starting, in_progress,
                                            pull_complete, invalid_pull
                                            max:1000 chars
  bundle_url
                                  string
  calibration_dataset
                                            max:36 chars
                                  string
  checkpoint_choose_method
                                            ALLOWED: latest_model, best_model,
                                  enum
                                            from_epoch_number
  checkpoint_epoch_number {
  cloud_details {
    cloud_file_type
                                       ALLOWED: file, folder
                             enum
    cloud_specific_details undefined
    cloud_type
                             enum
                                       ALLOWED: aws, azure, gcp, huggingface,
                                       self_hosted
  }
  created_on
                                            max:26 chars
                                  string
  dataset_formats
                                  [enum]
                                            ALLOWED: kitti, pascal_voc, raw, coco_raw,
                                            unet, coco, lprnet, train, test, default,
                                            custom, classification_pyt,
                                            classification_tf2,
                                            visual_changenet_segment,
                                            visual_changenet_classify, monai
  dataset_type
                                  enum
                                            ALLOWED: object_detection,
                                            semantic_segmentation,
                                            image_classification,
                                            instance_segmentation,
                                            character_recognition, action_recognition,
                                            pointpillars, pose_classification,
```

```
ml_recog, ocdnet, ocrnet,
                                          optical_inspection, re_identification,
                                          visual_changenet, centerpose,
                                          not_restricted, user_custom
                                          max:1000 chars
description
                                 string
docker_env_vars {
}
                                          max:1000 chars
domain
                                 string
encryption_key
                                          max:100 chars
                                 string
eval_dataset
                                          max:36 chars
                                 string
                                          max:36 chars
                                 string
inference_dataset
                                          max:36 chars
                                string
is_ptm_backbone
                                boolean
jobs [{
Array of object:
  action
                            ALLOWED:dataset_convert, convert,
                 enum
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert,
                            analyze, validate, generate, calibration_tensorfile,
                            annotation, nextimage, cacheimage, notify, auto3dseg
  created_on
                            max:26 chars
                 strina
  description
                 string
                            max:1000 chars
                            max:36 chars
  experiment_id string
  id
                            max:36 chars
                 string
  job_tar_stats {
    file size
                   integer between 0 and 9223372036854776000
    sha256_digest string
                            max:64 chars
  last_modified string
                            max:26 chars
                            max:500 chars
  name
                 string
                            between 0 and 9223372036854776000
  num_gpu
                 integer
  parent_id
                 string
                            max:36 chars
                            ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
  platform
                 enum
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
                   number
         value
       }]
       metric
                string
                          max:100 chars
    }]
    cur_iter
                                      between 0 and 9223372036854776000
                         integer
    detailed status {
       date
                string max:26 chars
       message string max:6400 chars
               string max:100 chars
       status
       time
                string max:26 chars
     }
                                      between -1 and 9223372036854776000
                         integer
    epoch
```

```
max:9223372036854776000 chars
    eta
                         string
    graphical [{
    Array of object:
       metric string
                       max:100 chars
                       max:100 chars
       units
             string
       values {
       }
               integer between -9223372036854776000 and 9223372036854776000
       x_{max}
               integer between -9223372036854776000 and 9223372036854776000
       x_min
               number
       y_max
       y_min
              number
     }]
                         number
    key_metric
    kpi [{
    Array of object:
       metric string max:100 chars
       values {
       }
    }]
                                       between 0 and 9223372036854776000
    max_epoch
                         integer
    message
                         string
                                       max:9223372036854776000 chars
    stats [{
    Array of object:
       metric string max:100 chars
       value string max:9223372036854776000 chars
    }]
                                       max:9223372036854776000 chars
    time_per_epoch
                         string
                                       max:9223372036854776000 chars
    time_per_iter
                         string
  }
  specs
                 undefined
  status
                 enum
                            ALLOWED: Done, Running, Error, Pending, Canceled
                 boolean
  sync
}]
last_modified
                                 string
                                          max:26 chars
license
                                          max:1000 chars
                                 string
                                          max:2048 chars
logo
                                 string
                                          max:100 chars
metric
                                 string
model_params {
name
                                 string
                                          max:500 chars
network arch
                                 enum
                                          ALLOWED: detectnet_v2, unet,
                                          classification_tf2, efficientdet_tf2,
                                          action_recognition, classification_pyt,
                                          mal, ml_recog, ocdnet, ocrnet,
                                          optical_inspection, pointpillars,
                                          pose_classification, re_identification,
                                          deformable_detr, dino, segformer,
                                          visual_changenet, centerpose, auto_label,
                                          image, monai_vista3d, monai_vista2d,
                                          monai_segmentation, monai_annotation,
                                          monai_classification, monai_detection,
                                          monai_automl, monai_custom, monai_genai
ngc_path
                                          max:250 chars
                                 string
public
                                 boolean
                                 boolean
read_only
realtime_infer
                                 boolean
realtime_infer_endpoint
                                 strina
                                          WRITE-ONLY
```

```
max:1000 chars
    realtime_infer_model_name
                                               WRITE-ONLY
                                     string
                                               max:1000 chars
                                               between 0 and 86400
    realtime_infer_request_timeout integer
    realtime_infer_support
                                     boolean
    sha256_digest {
    spec_file_present
                                     boolean
    task
                                               max:1000 chars
                                     string
    train_datasets
                                     [string] max:36 chars
                                     enum
                                               ALLOWED: vision, medical
    type
    user_id
                                               WRITE-ONLY
                                     string
                                               max:36 chars
                                               max:500 chars
    version
                                     string
STATUS CODE - 400: Bad request, see reply body for details
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
STATUS CODE - 404: User or Experiment not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

# 4.5 DELETE /api/v1/orgs/{org\_name}/experiments/{experiment\_id}

### **Delete Experiment**

Cancels all related running jobs and returns the deleted Experiment

## **REQUEST**

## PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment to delete

### **RESPONSE**

```
annotation_format_convert, analyze,
                                         validate, generate, calibration_tensorfile,
                                         annotation, nextimage, cacheimage, notify,
                                         auto3dseq
additional_id_info
                                string
                                         max:100 chars
automl_settings {
  automl_R
                                   integer between 0 and 9223372036854776000
  automl_add_hyperparameters
                                   string
                                           max:5000 chars
  automl_algorithm
                                   enum
                                            ALLOWED: bayesian, hyperband
  automl_delete_intermediate_ckpt boolean
  automl_enabled
                                   boolean
  automl_max_recommendations
                                   integer between 0 and 9223372036854776000
                                   integer between 0 and 9223372036854776000
  automl_nu
                                           max:5000 chars
  automl_remove_hyperparameters
                                   string
  epoch_multiplier
                                   integer between 0 and 9223372036854776000
  override_automl_disabled_params boolean
}
backbone_class
                                string
                                         max:1000 chars
backbone_type
                                         max:1000 chars
                                string
base_experiment
                                [string] max:36 chars
base_experiment_pull_complete
                                         ALLOWED:starting, in_progress, pull_complete,
                                enum
                                         invalid_pull
                                         max:1000 chars
bundle url
                                string
calibration_dataset
                                         max:36 chars
                                string
                                         ALLOWED: latest_model, best_model,
checkpoint_choose_method
                                enum
                                         from_epoch_number
checkpoint_epoch_number {
cloud_details {
  cloud_file_type
                                    ALLOWED: file, folder
                          enum
  cloud_specific_details undefined
                                    ALLOWED:aws, azure, gcp, huggingface, self_hosted
  cloud_type
                          enum
}
created_on
                                         max:26 chars
                                string
                                         ALLOWED: kitti, pascal_voc, raw, coco_raw,
dataset_formats
                                [enum]
                                         unet, coco, lprnet, train, test, default,
                                         custom, classification_pyt,
                                         classification_tf2,
                                         visual_changenet_segment,
                                         visual_changenet_classify, monai
                                         ALLOWED: object_detection,
dataset_type
                                enum
                                         semantic_segmentation,
                                         image_classification,
                                         instance_segmentation,
                                         character_recognition, action_recognition,
                                         pointpillars, pose_classification,
                                         ml_recog, ocdnet, ocrnet,
                                         optical_inspection, re_identification,
                                         visual_changenet, centerpose,
                                         not_restricted, user_custom
description
                                         max:1000 chars
                                string
docker_env_vars {
}
domain
                                         max:1000 chars
                                string
encryption_key
                                         max:100 chars
                                string
                                string
eval_dataset
                                         max:36 chars
```

trtexec, inference, batchinfer, augment,

```
id
                                           max:36 chars
                                 string
inference_dataset
                                           max:36 chars
                                 string
is_ptm_backbone
                                 boolean
jobs [{
Array of object:
  action
                 enum
                            ALLOWED: dataset_convert, convert,
                            convert_efficientdet_tf2, train, evaluate, prune,
                            retrain, export, gen_trt_engine, trtexec, inference,
                            batchinfer, augment, annotation_format_convert, analyze,
                            validate, generate, calibration_tensorfile, annotation,
                            nextimage, cacheimage, notify, auto3dseg
                            max:26 chars
  created_on
                 string
                            max:1000 chars
  description
                 string
                            max:36 chars
  experiment_id string
  id
                            max:36 chars
                 string
  job_tar_stats {
    file_size
                    integer between 0 and 9223372036854776000
                            max:64 chars
     sha256_digest string
  }
                            max:26 chars
  last_modified string
  name
                 string
                            max:500 chars
                            between 0 and 9223372036854776000
                 integer
  num_gpu
  parent_id
                 string
                            max:36 chars
  platform
                            ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
  result {
    automl_result [{
    Array of object:
       metric string max:100 chars
       value number
    }]
    categorical [{
    Array of object:
       category_wise_values [{
       Array of object:
         category string max:500 chars
         value
                   number
       }]
       metric
                string
                          max:100 chars
     }]
    cur_iter
                         integer
                                       between 0 and 9223372036854776000
    detailed_status {
                string max:26 chars
       date
       message string max:6400 chars
       status
                string max:100 chars
       time
                string max:26 chars
     }
                                       between -1 and 9223372036854776000
    epoch
                         integer
    eta
                         string
                                       max:9223372036854776000 chars
    graphical [{
    Array of object:
       metric string
                       max:100 chars
       units
              string
                       max:100 chars
       values {
       }
       x_max
               integer between -9223372036854776000 and
                                                            9223372036854776000
               integer between -9223372036854776000 and
                                                           9223372036854776000
       x_min
       y_max
               number
```

```
y_min
             number
    }]
    key_metric
                         number
    kpi [{
    Array of object:
       metric string max:100 chars
       values {
       }
    }]
                                      between 0 and 9223372036854776000
    max_epoch
                         integer
    message
                         string
                                      max:9223372036854776000 chars
    stats [{
    Array of object:
       metric string max:100 chars
       value string max:9223372036854776000 chars
    }]
    time_per_epoch
                         string
                                      max:9223372036854776000 chars
                                      max:9223372036854776000 chars
    time_per_iter
                         string
  }
                 undefined
  specs
  status
                 enum
                            ALLOWED: Done, Running, Error, Pending, Canceled
                 boolean
  sync
}]
last_modified
                                string
                                          max:26 chars
license
                                          max:1000 chars
                                string
logo
                                          max:2048 chars
                                string
metric
                                          max:100 chars
                                strina
model_params {
}
                                          max:500 chars
name
                                string
network_arch
                                          ALLOWED: detectnet_v2, unet,
                                enum
                                          classification_tf2, efficientdet_tf2,
                                          action_recognition, classification_pyt,
                                          mal, ml_recog, ocdnet, ocrnet,
                                          optical_inspection, pointpillars,
                                          pose_classification, re_identification,
                                          deformable_detr, dino, segformer,
                                          visual_changenet, centerpose, auto_label,
                                          image, monai_vista3d, monai_vista2d,
                                          monai_segmentation, monai_annotation,
                                          monai_classification, monai_detection,
                                          monai_automl, monai_custom, monai_genai
                                          max:250 chars
ngc_path
                                string
public
                                boolean
read_only
                                boolean
realtime_infer
                                boolean
realtime_infer_endpoint
                                strina
                                          WRITE-ONLY
                                          max:1000 chars
realtime_infer_model_name
                                          WRITE-ONLY
                                string
                                          max:1000 chars
realtime_infer_request_timeout integer
                                          between 0 and 86400
realtime_infer_support
                                boolean
sha256_digest {
}
spec_file_present
                                boolean
                                          max:1000 chars
task
                                string
                                [string] max:36 chars
train_datasets
```

```
ALLOWED: vision, medical
    type
                                       enum
    user_id
                                                 WRITE-ONLY
                                       string
                                                 max:36 chars
                                                 max:500 chars
    version
                                       string
 }
STATUS CODE - 404: User or Experiment not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string
                         max:1000 chars
 }
```

# 4.6 PATCH /api/v1/orgs/{org\_name}/experiments/{experiment\_id}

### Partial update Experiment

Returns the updated Experiment

### **REQUEST**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment to update

```
REQUEST BODY - application/json
  additional_id_info
                                            max:100 chars
                                  string
  automl_settings {
                                      integer between 0 and 9223372036854776000
    automl_R
    automl_add_hyperparameters
                                      string
                                              max:5000 chars
    automl_algorithm
                                      enum
                                              ALLOWED:bayesian, hyperband
    automl_delete_intermediate_ckpt boolean
    automl_enabled
                                      boolean
                                      integer between 0 and 9223372036854776000
    automl_max_recommendations
    automl nu
                                      integer between 0 and
                                                             9223372036854776000
    automl_remove_hyperparameters
                                      string max:5000 chars
    epoch_multiplier
                                      integer between 0 and 9223372036854776000
    override_automl_disabled_params boolean
                                   [string] max:36 chars
  base_experiment
  base_experiment_pull_complete
                                            ALLOWED:starting, in_progress, pull_complete,
                                   enum
                                            invalid_pull
  bundle_url
                                            max:1000 chars
                                   string
  calibration_dataset
                                            max:36 chars
                                   string
  checkpoint_choose_method
                                   enum
                                            ALLOWED: latest_model, best_model,
                                            from_epoch_number
  checkpoint_epoch_number {
  cloud_details {
                                       ALLOWED: file, folder
    cloud_file_type
                            enum
```

```
cloud_specific_details undefined
      cloud_type
                              enum
                                         ALLOWED:aws, azure, gcp, huggingface, self_hosted
    }
    description
                                              max:1000 chars
                                     string
    docker_env_vars {
                                              max:100 chars
    encryption_key
                                     string
    eval_dataset
                                              max:36 chars
                                     string
    inference_dataset
                                              max:36 chars
                                     string
    is_ptm_backbone
                                    boolean
    logo
                                     string
                                              max:2048 chars
    metric
                                              max:100 chars
                                     string
    model_params {
                                              max:500 chars
    name
                                     string
    network_arch
                                     enum
                                               ALLOWED: detectnet_v2, unet,
                                               classification_tf2, efficientdet_tf2,
                                               action_recognition, classification_pyt, mal,
                                               ml_recog, ocdnet, ocrnet,
                                               optical_inspection, pointpillars,
                                               pose_classification, re_identification,
                                               deformable_detr, dino, segformer,
                                               visual_changenet, centerpose, auto_label,
                                               image, monai_vista3d, monai_vista2d,
                                               monai_segmentation, monai_annotation,
                                               monai_classification, monai_detection,
                                               monai_automl, monai_custom, monai_genai
                                              max:250 chars
    ngc_path
                                     string
    public
                                     boolean
    read_only
                                    boolean
    realtime_infer
                                    boolean
    realtime_infer_request_timeout integer
                                              between 0 and 9223372036854776000
    sha256_digest {
    spec_file_present
                                     boolean
                                     [string] max:36 chars
    train_datasets
                                              ALLOWED: vision, medical
    type
                                     enum
                                              max:36 chars
    user_id
                                     string
    version
                                              max:500 chars
                                     string
 }
RESPONSE
 STATUS CODE - 200: Returned the updated Experiment
   RESPONSE MODEL - application/json
   {
     actions
                                      [enum]
                                                ALLOWED: dataset_convert, convert,
                                                convert_efficientdet_tf2, train, evaluate,
                                                prune, retrain, export, gen_trt_engine,
                                                trtexec, inference, batchinfer, augment,
                                                annotation_format_convert, analyze,
                                                validate, generate,
                                                calibration_tensorfile, annotation,
                                                nextimage, cacheimage, notify, auto3dseg
     additional_id_info
                                                max:100 chars
                                      string
     automl_settings {
```

```
automl_R
                                    integer between 0 and 9223372036854776000
  automl_add_hyperparameters
                                    string
                                            max:5000 chars
  automl_algorithm
                                    enum
                                            ALLOWED: bayesian, hyperband
  automl_delete_intermediate_ckpt boolean
  automl_enabled
                                    boolean
  automl_max_recommendations
                                    integer between 0 and 9223372036854776000
                                                            9223372036854776000
  automl_nu
                                    integer between 0 and
  automl_remove_hyperparameters
                                            max:5000 chars
                                    string
                                    integer between 0 and 9223372036854776000
  epoch_multiplier
  override_automl_disabled_params boolean
}
backbone_class
                                          max:1000 chars
                                string
backbone_type
                                          max:1000 chars
                                string
                                [string] max:36 chars
base_experiment
base_experiment_pull_complete
                                          ALLOWED:starting, in_progress,
                                enum
                                          pull_complete, invalid_pull
bundle_url
                                          max:1000 chars
                                string
calibration_dataset
                                          max:36 chars
                                string
                                          ALLOWED: latest_model, best_model,
checkpoint_choose_method
                                enum
                                          from_epoch_number
checkpoint_epoch_number {
cloud_details {
  cloud_file_type
                                     ALLOWED: file, folder
                          enum
  cloud_specific_details undefined
                                     ALLOWED:aws, azure, gcp, huggingface,
  cloud_type
                          enum
                                     self_hosted
}
created_on
                                string
                                          max:26 chars
dataset_formats
                                [enum]
                                          ALLOWED: kitti, pascal_voc, raw, coco_raw,
                                          unet, coco, lprnet, train, test, default,
                                          custom, classification_pyt,
                                          classification_tf2,
                                          visual_changenet_segment,
                                          visual_changenet_classify, monai
                                          ALLOWED:object_detection,
dataset_type
                                enum
                                          semantic_segmentation.
                                          image_classification,
                                          instance_segmentation,
                                          character_recognition, action_recognition,
                                          pointpillars, pose_classification,
                                          ml_recog, ocdnet, ocrnet,
                                          optical_inspection, re_identification,
                                          visual_changenet, centerpose,
                                          not_restricted, user_custom
description
                                          max:1000 chars
                                string
docker_env_vars {
}
                                          max:1000 chars
domain
                                string
encryption_key
                                string
                                          max:100 chars
eval dataset
                                          max:36 chars
                                string
Ьi
                                string
                                          max:36 chars
inference_dataset
                                          max:36 chars
                                strina
is_ptm_backbone
                                boolean
jobs [{
Array of object:
```

ALLOWED: dataset\_convert, convert,

action

enum

```
convert_efficientdet_tf2, train, evaluate, prune,
                          retrain, export, gen_trt_engine, trtexec, inference,
                          batchinfer, augment, annotation_format_convert,
                          analyze, validate, generate, calibration_tensorfile,
                          annotation, nextimage, cacheimage, notify, auto3dseg
created_on
               string
                         max:26 chars
description
                         max:1000 chars
               string
                         max:36 chars
experiment_id string
               string
id
                         max:36 chars
job_tar_stats {
                 integer between 0 and 9223372036854776000
  file_size
                          max:64 chars
  sha256_digest string
}
last_modified string
                         max:26 chars
                         max:500 chars
name
               string
num_qpu
               integer
                          between 0 and
                                         9223372036854776000
parent_id
               string
                         max:36 chars
platform
                         ALLOWED: 14, 140, a10, a30, a40, a100, v100
               enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
     value number
  }]
  categorical [{
  Array of object:
     category_wise_values [{
    Array of object:
       category string max:500 chars
       value
                 number
     }]
                       max:100 chars
    metric
              string
  }]
  cur_iter
                       integer
                                    between 0 and 9223372036854776000
  detailed_status {
             string max:26 chars
    message string max:6400 chars
     status
             string max:100 chars
             string max:26 chars
     time
  }
  epoch
                       integer
                                    between -1 and 9223372036854776000
  eta
                       string
                                    max:9223372036854776000 chars
  graphical [{
  Array of object:
                     max:100 chars
    metric string
    units string
                     max:100 chars
    values {
     }
            integer between -9223372036854776000 and
    x_max
                                                         9223372036854776000
            integer between -9223372036854776000 and
                                                        9223372036854776000
    x_min
            number
    y_max
            number
    y_min
  }]
                       number
  key_metric
  kpi [{
  Array of object:
    metric string max:100 chars
```

```
values {
    }]
                                      between 0 and 9223372036854776000
    max_epoch
                         integer
                                      max:9223372036854776000 chars
    message
                         string
    stats [{
    Array of object:
       metric string max:100 chars
       value string max:9223372036854776000 chars
    }]
    time_per_epoch
                         string
                                      max:9223372036854776000 chars
                                      max:9223372036854776000 chars
    time_per_iter
                         string
  }
                 undefined
  specs
  status
                 enum
                            ALLOWED: Done, Running, Error, Pending, Canceled
                 boolean
  sync
}]
                                          max:26 chars
last_modified
                                string
license
                                          max:1000 chars
                                string
                                          max:2048 chars
logo
                                string
metric
                                string
                                          max:100 chars
model_params {
}
                                          max:500 chars
name
                                string
                                          ALLOWED: detectnet_v2, unet,
network_arch
                                enum
                                          classification_tf2, efficientdet_tf2,
                                          action_recognition, classification_pyt,
                                          mal, ml_recog, ocdnet, ocrnet,
                                          optical_inspection, pointpillars,
                                          pose_classification, re_identification,
                                          deformable_detr, dino, segformer.
                                          visual_changenet, centerpose, auto_label,
                                          image, monai_vista3d, monai_vista2d,
                                          monai_segmentation, monai_annotation,
                                          monai_classification, monai_detection,
                                          monai_automl, monai_custom, monai_genai
ngc_path
                                strina
                                          max:250 chars
                                boolean
public
read_only
                                boolean
realtime_infer
                                boolean
realtime_infer_endpoint
                                string
                                          WRITE-ONLY
                                          max:1000 chars
realtime_infer_model_name
                                string
                                          WRITE-ONLY
                                          max:1000 chars
realtime_infer_request_timeout integer
                                          between 0 and 86400
realtime_infer_support
                                boolean
sha256_digest {
spec_file_present
                                boolean
task
                                          max:1000 chars
                                string
train_datasets
                                [string] max:36 chars
                                          ALLOWED: vision, medical
type
                                enum
user_id
                                          WRITE-ONLY
                                string
                                          max:36 chars
                                          max:500 chars
version
                                string
```

}

```
RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
}

STATUS CODE - 404: User or Experiment not found

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
}
```

# 4.7 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs

## **List Jobs for Experiment**

Returns the list of Jobs

## **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	string max:36 chars PATTERN: .*	ID for Experiment

### **QUERY PARAMETERS**

NAME	TYPE	DESCRIPTION
skip	int32 between 0 and 2147483647	Optional skip for pagination
size	int32 between 0 and 2147483647	Optional size for pagination
sort	enum ALLOWED: date-descending, date-ascending	Optional sort

### **RESPONSE**

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

## RESPONSE MODEL - application/json

{ Array of object:

action

enum

ALLOWED:dataset\_convert, convert, convert\_efficientdet\_tf2,
train, evaluate, prune, retrain, export, gen\_trt\_engine,
trtexec, inference, batchinfer, augment,
annotation\_format\_convert, analyze, validate, generate,
calibration\_tensorfile, annotation, nextimage, cacheimage,
notify, auto3dseg

created\_on string max:26 chars

```
description
                         max:1000 chars
              string
                         max:36 chars
experiment_id string
id
                         max:36 chars
               string
job_tar_stats {
                 integer between 0 and 9223372036854776000
  file_size
                         max:64 chars
  sha256_digest string
}
last_modified string
                         max:26 chars
name
                         max:500 chars
               string
num_gpu
                         between 0 and 9223372036854776000
              integer
parent_id
               string
                         max:36 chars
platform
                         ALLOWED: 14, 140, a10, a30, a40, a100, v100
              enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
    category_wise_values [{
    Array of object:
       category string max:500 chars
       value
                number
    }]
                       max:100 chars
    metric
              string
  }]
  cur_iter
                                    between 0 and 9223372036854776000
                       integer
  detailed_status {
    date
             string max:26 chars
    message string max:6400 chars
    status string max:100 chars
    time
             string max:26 chars
  }
                                    between -1 and 9223372036854776000
  epoch
                       integer
                                    max:9223372036854776000 chars
  eta
                       string
  graphical [{
  Array of object:
    metric string max:100 chars
    units
            string
                    max:100 chars
    values {
    }
            integer between -9223372036854776000 and 9223372036854776000
    x_max
            integer between -9223372036854776000 and 9223372036854776000
    x_min
            number
    y_max
    y_min
            number
  }]
  key_metric
                       number
  kpi [{
  Array of object:
    metric string max:100 chars
    values {
    }
  }]
                                    between 0 and 9223372036854776000
  max_epoch
                       integer
                                    max:9223372036854776000 chars
  message
                       string
  stats [{
```

```
Array of object:
         metric string max:100 chars
         value string max:9223372036854776000 chars
      } ]
      time_per_epoch
                                        max:9223372036854776000 chars
                           string
      time_per_iter
                           string
                                         max:9223372036854776000 chars
    }
                   undefined
    specs
    status
                              ALLOWED: Done, Running, Error, Pending, Canceled
                   enum
                   boolean
    sync
 }]
STATUS CODE - 404: User or Experiment not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

## 4.8 POST /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs

### **Run Experiment Jobs**

Asynchronously starts a Experiment Action and returns corresponding Job ID

## **REQUEST**

### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID for Experiment

```
REQUEST BODY - application/json
                           ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
  action
                 enum
                           train, evaluate, prune, retrain, export, gen_trt_engine,
                           trtexec, inference, batchinfer, augment,
                           annotation_format_convert, analyze, validate, generate,
                           calibration_tensorfile, annotation, nextimage, cacheimage,
                           notify, auto3dseg
                           max:1000 chars
  description
                 string
                           max:500 chars
  name
                 string
                           between 0 and 9223372036854776000
  num_gpu
                 integer
                           max:36 chars
  parent_job_id string
  platform
                enum
                           ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
  specs
                 undefined
}
```

## **RESPONSE**

STATUS CODE - 201: Returned the Job ID corresponding to requested Experiment Action

RESPONSE MODEL - application/json

```
string
max:36 chars

STATUS CODE - 404: User or Experiment not found

RESPONSE MODEL - application/json
{
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
```

# 4.9 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/{job\_id}

### **Retrieve Job for Experiment**

Returns the Job

## **REQUEST**

}

### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment
*job_id	uuid max:36 chars	Job ID

### **RESPONSE**

```
STATUS CODE - 200: Returned Job
```

```
RESPONSE MODEL - application/json
```

```
ALLOWED:dataset_convert, convert, convert_efficientdet_tf2.
action
              enum
                         train, evaluate, prune, retrain, export, gen_trt_engine,
                         trtexec, inference, batchinfer, augment,
                         annotation_format_convert, analyze, validate, generate,
                         calibration_tensorfile, annotation, nextimage, cacheimage,
                         notify, auto3dseg
                        max:26 chars
created_on
              string
                        max:1000 chars
description
              string
                        max:36 chars
experiment_id string
id
                        max:36 chars
              string
job_tar_stats {
                integer between 0 and 9223372036854776000
  file_size
  sha256_digest string max:64 chars
}
last_modified string
                        max:26 chars
                        max:500 chars
name
              string
num_gpu
              integer
                        between 0 and 9223372036854776000
parent_id
              string
                        max:36 chars
platform
                        ALLOWED:t4, 14, 140, a10, a30, a40, a100, v100
              enum
result {
  automl_result [{
```

```
Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
    category_wise_values [{
    Array of object:
       category string max:500 chars
                number
       value
    }]
                       max:100 chars
    metric
              string
  } ]
  cur_iter
                       integer
                                    between 0 and 9223372036854776000
  detailed_status {
    date
             string max:26 chars
    message string max:6400 chars
    status string max:100 chars
    time
             string max:26 chars
  }
  epoch
                       integer
                                     between -1 and 9223372036854776000
                                     max:9223372036854776000 chars
  eta
                       string
  graphical [{
  Array of object:
    metric string
                     max:100 chars
    units
           string
                     max:100 chars
    values {
     }
            integer between -9223372036854776000 and 9223372036854776000
    x_max
    x_min
            integer between -9223372036854776000 and 9223372036854776000
    y_max
            number
            number
    y_min
  }]
  key_metric
                       number
  kpi [{
  Array of object:
    metric string max:100 chars
    values {
     }
  }]
                       integer
                                     between 0 and 9223372036854776000
  max_epoch
                                     max:9223372036854776000 chars
  message
                       string
  stats [{
  Array of object:
    metric string max:100 chars
            string max:9223372036854776000 chars
  } ]
  time_per_epoch
                       string
                                     max:9223372036854776000 chars
                                    max:9223372036854776000 chars
  time_per_iter
                       string
               undefined
specs
status
               enum
                          ALLOWED: Done, Running, Error, Pending, Canceled
sync
               boolean
```

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

RESPONSE MODEL - application/json

}

}

```
{
   error_code integer between -9223372036854776000 and 9223372036854776000
   error_desc string max:1000 chars
}
```

# 4.10 DELETE /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/ {job\_id}

**Delete Experiment Job** 

## **REQUEST**

### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID for Experiment
*job_id	uuid max:36 chars	ID for Job

## **RESPONSE**

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

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

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```

# 4.11 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/{job\_id}/ logs

## **Get Job logs for Experiment**

Returns the job logs

## **REQUEST**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment
*job_id	uuid max:36 chars	Job ID

### **RESPONSE**

```
STATUS CODE - 200: Returned Job Logs

RESPONSE MODEL - text/plain

STATUS CODE - 404: Job not exist or logs not found.

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```

```
4.12 POST /api/v1/orgs/{org_name}/experiments/{experiment_id}/jobs/{job_id}:cancel
```

Cancel Experiment Job or pause training

## **REQUEST**

#### PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID for Experiment
*job_id	uuid max:36 chars	ID for Job

### **RESPONSE**

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

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

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```

# 4.13 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/ {job\_id}:download

### **Download Job Artifacts**

Download the Artifacts produced by a given job

# **REQUEST**

NAME	TVPF	DESCRIPTION
IVAIVIE	111 6	DESCRIPTION

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment
*job_id	uuid max:36 chars	Job ID

## **RESPONSE**

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

## RESPONSE MODEL - application/octet-stream

```
string
max:1000 chars

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

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```

# 4.14 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/ {job\_id}:log\_update

## Posts log for the job

Saves recieved content to log file

### **REQUEST**

# **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment
*job_id	uuid max:36 chars	Job ID

## **RESPONSE**

ALLOWED:dataset\_convert, convert, convert\_efficientdet\_tf2, train, evaluate, prune, retrain, export, gen\_trt\_engine, trtexec, inference, batchinfer, augment, annotation\_format\_convert, analyze, validate, generate,

```
calibration_tensorfile, annotation, nextimage, cacheimage,
                          notify, auto3dseg
created_on
                         max:26 chars
              string
description
                         max:1000 chars
              string
                         max:36 chars
experiment_id string
                         max:36 chars
id
               string
job_tar_stats {
  file_size
                 integer between 0 and 9223372036854776000
                         max:64 chars
  sha256_digest string
}
last_modified string
                         max:26 chars
                         max:500 chars
name
               string
                         between 0 and 9223372036854776000
num_gpu
              integer
                         max:36 chars
parent_id
              string
platform
                         ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
              enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
    category_wise_values [{
    Array of object:
       category string max:500 chars
               number
    }]
    metric
              string
                       max:100 chars
  }]
  cur_iter
                                    between 0 and 9223372036854776000
                       integer
  detailed_status {
    date
             string max:26 chars
    message string max:6400 chars
    status string max:100 chars
             string max:26 chars
    time
  }
  epoch
                       integer
                                    between -1 and 9223372036854776000
                                    max:9223372036854776000 chars
  eta
                       string
  graphical [{
  Array of object:
    metric string
                     max:100 chars
    units string
                     max:100 chars
    values {
    }
            integer between -9223372036854776000 and 9223372036854776000
    x_max
            integer between -9223372036854776000 and 9223372036854776000
    x_min
            number
    y_max
            number
    y_min
  }]
  key_metric
                       number
  kpi [{
  Array of object:
    metric string max:100 chars
    values {
    }
```

}]

```
between 0 and 9223372036854776000
      max_epoch
                           integer
                                         max:9223372036854776000 chars
      message
                           string
      stats [{
      Array of object:
         metric string max:100 chars
         value string max:9223372036854776000 chars
      }]
                                         max:9223372036854776000 chars
      time_per_epoch
                           string
                                         max:9223372036854776000 chars
      time_per_iter
                           string
    }
    specs
                   undefined
                              ALLOWED: Done, Running, Error, Pending, Canceled
    status
                   enum
                   boolean
    sync
STATUS CODE - 404: User, Experiment or Job not found
 RESPONSE MODEL - application/json
 {
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

# 4.15 POST /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/ {job\_id}:publish\_model

### Publish models to NGC

Publish models to NGC private registry

### REQUEST

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID for Experiment
*job_id	uuid max:36 chars	ID for Job

```
REQUEST BODY - application/json
{
                           ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
  action
                 enum
                            train, evaluate, prune, retrain, export, gen_trt_engine,
                            trtexec, inference, batchinfer, augment,
                            annotation_format_convert, analyze, validate, generate,
                            calibration_tensorfile, annotation, nextimage, cacheimage,
                            notify, auto3dseg
                           max:1000 chars
  description
                 string
  name
                 string
                           max:500 chars
                            between 0 and 9223372036854776000
  num_qpu
                 integer
  parent_job_id string
                           max:36 chars
  platform
                           ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
                 enum
  specs
                 undefined
```

}

## **RESPONSE**

```
STATUS CODE - 201: Returned the Job ID corresponding to requested Experiment Action
```

```
RESPONSE MODEL - application/json
```

```
string
max:36 chars

STATUS CODE - 404: User or Experiment not found

RESPONSE MODEL - application/json

{
    error_code integer between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```

# 4.16 POST /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/ {job\_id}:resume

## **Resume Experiment Job**

Resume Experiment Job - train/retrain only

## **REQUEST**

### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID for Experiment
*job_id	uuid max:36 chars	ID for Job

```
REQUEST BODY - application/json
{
   parent_job_id string max:36 chars
   specs undefined
}
```

## **RESPONSE**

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

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

```
RESPONSE MODEL - application/json
```

```
{
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
}
```

# 4.17 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/jobs/ {job\_id}:status\_update

### Posts status for the job

Saves recieved content to status file

### **REQUEST**

### **PATH PARAMETERS**

NAME	TYPE	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	Org Name
*experiment_id	uuid max:36 chars	ID of Experiment
*job_id	uuid max:36 chars	Job ID

### **RESPONSE**

```
STATUS CODE - 200: Returned Job
```

```
RESPONSE MODEL - application/json
```

```
enum
                         ALLOWED:dataset_convert, convert, convert_efficientdet_tf2,
action
                         train, evaluate, prune, retrain, export, gen_trt_engine,
                         trtexec, inference, batchinfer, augment,
                         annotation_format_convert, analyze, validate, generate,
                         calibration_tensorfile, annotation, nextimage, cacheimage,
                         notify, auto3dseg
created_on
                         max:26 chars
               string
description
                         max:1000 chars
               string
experiment_id string
                         max:36 chars
                         max:36 chars
              string
job_tar_stats {
                 integer between 0 and 9223372036854776000
  file_size
  sha256_digest string max:64 chars
                         max:26 chars
last_modified string
name
              string
                         max:500 chars
                         between 0 and
                                        9223372036854776000
num_gpu
              integer
parent_id
                         max:36 chars
              string
                         ALLOWED: t4, 14, 140, a10, a30, a40, a100, v100
platform
              enum
result {
  automl_result [{
  Array of object:
    metric string max:100 chars
    value number
  }]
  categorical [{
  Array of object:
    category_wise_values [{
    Array of object:
       category string max:500 chars
       value
               number
    }]
```

```
metric string max:100 chars
      }]
      cur_iter
                          integer
                                      between 0 and 9223372036854776000
      detailed_status {
              string max:26 chars
        date
        message string max:6400 chars
        status string max:100 chars
                 string max:26 chars
        time
      }
      epoch
                          integer
                                       between -1 and 9223372036854776000
      eta
                          string
                                       max:9223372036854776000 chars
      graphical [{
      Array of object:
        metric string max:100 chars
        units string max:100 chars
        values {
               integer between -9223372036854776000 and 9223372036854776000
        x_{max}
        x_min
               integer between -9223372036854776000 and 9223372036854776000
               number
        y_max
        y_min
               number
      }]
      key_metric
                          number
      kpi [{
      Array of object:
        metric string max:100 chars
        values {
        }
      }]
                                        between 0 and 9223372036854776000
      max_epoch
                          integer
                                        max:9223372036854776000 chars
      message
                          string
      stats [{
      Array of object:
        metric string max:100 chars
        value string max:9223372036854776000 chars
      }]
                                       max:9223372036854776000 chars
      time_per_epoch
                          string
      time_per_iter
                          string
                                       max:9223372036854776000 chars
    }
    specs
                  undefined
    status
                  enum
                             ALLOWED: Done, Running, Error, Pending, Canceled
    sync
                  boolean
STATUS CODE - 404: User, Experiment or Job not found
 RESPONSE MODEL - application/json
    error_code integer between -9223372036854776000 and 9223372036854776000
    error_desc string max:1000 chars
 }
```

# 4.18 GET /api/v1/orgs/{org\_name}/experiments/{experiment\_id}/specs/ {action}/schema

**Retrieve Specs schema** 

# **REQUEST**

## PATH PARAMETERS

NAME	ТҮРЕ	DESCRIPTION
*org_name	string max:255 chars PATTERN: ^[a-zA-Z0-9]+\$	
<pre>*experiment_i d</pre>	uuid max:36 chars	ID for Experiment
*action	enum ALLOWED: dataset_convert, convert, convert_efficientdet_tf2, kmeans, augment, train, evaluate, prune, retrain, export, gen_trt_engine, trtexec, inference, annotation, analyze, validate, generate, calibration_tensorfile	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 between -9223372036854776000 and 9223372036854776000 error_desc string max:1000 chars
}
```