Perform a batch prediction and return the id of a long-running operation. You can request the operation result by using the `operations.get` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.operations/get#google.longrunning.Operations.GetOperation) method. When the operation has completed, you can call `operations.get` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.operations/get#google.longrunning.Operations.GetOperation) to retrieve a `BatchPredictResult` from the `response` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.operations#Operation.FIELDS.response) field.

```
POST https://automl.googleapis.com/v1beta1/{name}:batchPredict
```

Parameters

`name`	`string` Name of the model requested to serve the batch prediction. Authorization requires the following Google IAM (https://cloud.google.com/iam) permission on the specified resource `name`: • `automl.models.predict`

The request body contains data with the following structure:

JSON representation

Fields

`inputConfig`	`object(`BatchPredictInputConfig (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#BatchPredictInputConfig)`)` Required. The input configuration for batch prediction.
`outputConfig`	`object(`BatchPredictOutputConfig (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#BatchPredictOutputConfig)`)` Required. The Configuration specifying where output predictions should be written.

Fields	
params	`map (key: string, value: string)` Can be one of the following: `score_threshold`: (float) A value from 0.0 to 1.0. When the model makes predictions for a video, it will only produce results that have at least this confidence score. The default is 0. `segment_classification`: (boolean) Set to true to request segment-level classification. AutoML Video Intelligence returns labels and their confidence scores for the entire segment of the video that user specified in the request configuration. The default is "true". `shot_classification`: (boolean) Set to true to request shot-level classification. AutoML Video Intelligence determines the boundaries for each camera shot in the entire segment of the video that user specified in the request configuration. AutoML Video Intelligence then returns labels and their confidence scores for each detected shot, along with the start and end time of the shot. WARNING: Model evaluation is not done for this classification type, the quality of it depends on training data, but there are no metrics provided to describe that quality. The default is "false". `1s_interval_classification`: (boolean) Set to true to request classification for a video at one-second intervals. AutoML Video Intelligence returns labels and their confidence scores for each second of the entire segment of the video that user specified in the request configuration. WARNING: Model evaluation is not done for this classification type, the quality of it depends on training data, but there are no metrics provided to describe that quality. The default is "false". See Annotating videos (https://cloud.google.com/video-intelligence/automl/docs/predict) for more details.

If successful, the response body contains an instance of `Operation` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.operations#Operation).

Requires the following OAuth scope:

- `https://www.googleapis.com/auth/cloud-platform`

For more information, see the Authentication Overview (https://cloud.google.com/docs/authentication/).

Input configuration for `models.batchPredict` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#google.cloud.automl.v1beta1.PredictionService.BatchPredict) action. The input is one or more CSV files stored in Google Cloud Storage where the CSV files are in the following format:

- `GCS_FILE_PATH` identifies the Google Cloud Storage path to a video up to 50GB in size and up to 3h duration. Supported extensions: .MOV, .MPEG4, .MP4, .AVI.
- `TIME_SEGMENT_START` and `TIME_SEGMENT_END` must be within the length of the video, and end has to be after the start.

Three sample rows:

See Annotating videos (https://cloud.google.com/video-intelligence/automl/docs/predict) for more information.

JSON representation

Fields

`gcsSource`	`object(`GcsSource (/video-intelligence/automl/docs/reference/rest/v1beta1/GcsSource)`)` The Google Cloud Storage location for the input content.

Output configuration for `models.batchPredict` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#google.cloud.automl.v1beta1.PredictionService.BatchPredict)

Action.

AutoML Video Intelligence creates a directory specified in the `gcsDestination` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#BatchPredictOutputConfig.FIELDS.gcs_destination)

. The name of the directory is "prediction-<model-display-name>-<timestamp-of-prediction-call>", where timestamp is in `YYYY-MM-DDThh:mm:ss.sssZ` ISO-8601 format.

AutoML Video Intelligence creates a file named videoClassification.csv in the new directory, and also a JSON file for each video classification requested. That is, each row in the input CSV file.

The format of the videoClassification.csv file is as follows:

- The `GCS_FILE_PATH`, `TIME_SEGMENT_START`, `TIME_SEGMENT_END` match the same fields from the input CSV file.
- `JSON_FILE_NAME` is the name of the JSON file in the output directory that contains prediction responses for the video time segment.
- `STATUS` contains "OK" if the prediction completed successfully; otherwise contains error information. If `STATUS` is not "OK" then the JSON file for that prediction might be empty or the file might not exist.

Each JSON file where `STATUS` is "OK", contains a list of AnnotationPayload protos in JSON format, which are the predictions for the video time segment the file is assigned to in the videoClassification.csv. All AnnotationPayload protos have a `videoClassification` field, and are sorted by the `videoClassification.type` field. The types returned are determined by the `classifaction_types` parameter of `BatchPredictRequest.params` (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#body.request_body.FIELDS.params)
.

JSON representation

Fields

Union field **`destination`**. Required. The destination of the output. **`destination`** can be only one of the following:

Fields	
gcsDestination	object(GcsDestination (/video-intelligence/automl/docs/reference/rest/v1beta1/GcsDestination)) The Google Cloud Storage location of the directory where the output is to be written to.
bigqueryDestination	object(BigQueryDestination (/video-intelligence/automl/docs/reference/rest/v1beta1/projects.locations.models/batchPredict#BigQueryDestination)) The BigQuery location where the output is to be written to.

The BigQuery location for the output content.

JSON representation

Fields	
outputUri	string Required. BigQuery URI to a project, up to 2000 characters long. For example: bq://projectId