Method: projects.locations.models.predict

Perform an online prediction. The prediction result will be directly returned in the response. Available for following ML problems, and their expected request payloads: * Image Classification - Image in .JPEG, .GIF or .PNG format, imageBytes up to 30MB. * Image Object Detection - Image in .JPEG, .GIF or .PNG format, imageBytes up to 30MB. * Text Classification - TextSnippet, content up to 60,000 characters, UTF-8 encoded. * Text Extraction - TextSnippet, content up to 30,000 characters, UTF-8 NFC encoded. * Translation - TextSnippet, content up to 25,000 characters, UTF-8 encoded. * Tables - Row, with column values matching the columns of the model, up to 5MB. Not available for FORECASTING

`predictionType`. * Text Sentiment - TextSnippet, content up 500 characters, UTF-8 encoded.

HTTP request

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

Path parameters

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

Request body

The request body contains data with the following structure:

JSON representation

JSON representation

```
{
  "payload": {
    object (ExamplePayload (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/pr
  },
  "params": {
    string: string,
    ...
  }
}
```

Fields

payload	object (ExamplePayload (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#ExamplePayload)) Required. Payload to perform a prediction on. The payload must match the problem type that the model was trained to solve.

Fields	
params	**map (key: string, value: string)** Additional domain-specific parameters, any string must be up to 25000 characters long. • For Image Classification: **score_threshold** - (float) A value from 0.0 to 1.0. When the model makes predictions for an image, it will only produce results that have at least this confidence score. The default is 0.5. • For Image Object Detection: **score_threshold** - (float) When Model detects objects on the image, it will only produce bounding boxes which have at least this confidence score. Value in 0 to 1 range, default is 0.5. **max_bounding_box_count** - (int64) No more than this number of bounding boxes will be returned in the response. Default is 100, the requested value may be limited by server. • For Tables: **featureImportance** - (boolean) Whether [featureImportance] [**google.cloud.automl.v1beta1.TablesModelColumnInfo.feature_importance** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models#TablesModelColumnInfo.FIELDS.feature_importance) should be populated in the returned [TablesAnnotation(-s)] [**google.cloud.automl.v1beta1.TablesAnnotation** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TablesAnnotation) . The default is false. An object containing a list of "**key**": **value** pairs. Example: { "**name**": "**wrench**", "**mass**": "**1.3kg**", "**count**": "**3**" }.

Response body

If successful, the response body contains data with the following structure:

Response message for __PredictionService.Predict__
 (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#
google.cloud.automl.v1beta1.PredictionService.Predict)

.

JSON representation
| ```
{
  "payload": [
    {
      object (AnnotationPayload (https://cloud.google.com/vision/automl/docs/reference/rest/v1bet
    }
  ],
  "preprocessedInput": {
    object (ExamplePayload (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/pr
  },
  "metadata": {
    string: string,
    ...
  }
}
``` |

Fields	
payload[]	object (AnnotationPayload (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#AnnotationPayload)) Prediction result. Translation and Text Sentiment will return precisely one payload.
preprocessedInput	object (ExamplePayload (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#ExamplePayload)) The preprocessed example that AutoML actually makes prediction on. Empty if AutoML does not preprocess the input example. * For Text Extraction: If the input is a .pdf file, the OCR'ed text will be provided in documentText (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Document.FIELDS.document_text) .

Fields	
metadata	map (key: string, value: string) Additional domain-specific prediction response metadata. • For Image Object Detection: `max_bounding_box_count` - (int64) At most that many bounding boxes per image could have been returned. • For Text Sentiment: `sentiment_score` - (float, deprecated) A value between -1 and 1, -1 maps to least positive sentiment, while 1 maps to the most positive one and the higher the score, the more positive the sentiment in the document is. Yet these values are relative to the training data, so e.g. if all data was positive then -1 will be also positive (though the least). The sentiment_score shouldn't be confused with "score" or "magnitude" from the previous Natural Language Sentiment Analysis API. An object containing a list of `"key": value` pairs. Example: `{ "name": "wrench", "mass": "1.3kg", "count": "3" }`.

Authorization Scopes

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/).

ExamplePayload

Example data used for training or prediction.

JSON representation

JSON representation

```
{

  // Union field payload can be only one of the following:
  "image": {
    object (Image (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locat
  },
  "textSnippet": {
    object (TextSnippet (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  },
  "document": {
    object (Document (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.lc
  },
  "row": {
    object (Row (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.location
  }
  // End of list of possible types for union field payload.
}
```

Fields

Union field **payload**. Required. Input only. The example data. **payload** can be only one of the following:

image	object (Image (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Image)) Example image.
textSnippet	object (TextSnippet (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSnippet)) Example text.
document	object (Document (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Document)) Example document.

Fields	
row	object (Row (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models/predict#Row)) Example relational table row.

Image

A representation of an image. Only images up to 30MB in size are supported.

JSON representation

``
{
  "thumbnailUri": string,
  "contentUri": string,
 	
  // Union field data can be only one of the following:
  "imageBytes": string,
  "inputConfig": {
    object (InputConfig (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  }
  // End of list of possible types for union field data.
}
``

Fields	
thumbnailUri	string Output only. HTTP URI to the thumbnail image.
contentUri	string Output only. HTTP URI to the normalized image.

Fields

Union field **data**. Input only. The data representing the image. For Predict calls __image_bytes__
(https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Image.FIELDS.image_bytes)
must be set, as other options are not currently supported by prediction API. You can read the contents of an uploaded image by using the __content_uri__
(https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Image.FIELDS.content_uri)
field. **data** can be only one of the following:

imageBytes	string (__bytes__ (https://developers.google.com/discovery/v1/type-format) `format`) Image content represented as a stream of bytes. Note: As with all **bytes** fields, protobuffers use a pure binary representation, whereas JSON representations use base64. A base64-encoded string.
inputConfig	object (__InputConfig__ (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.datasets.tableSpecs#InputConfig)) An input config specifying the content of the image.

TextSnippet

A representation of a text snippet.

JSON representation

```
{
  "content": string,
  "mimeType": string,
  "contentUri": string
}
```

Fields

Fields	
content	**string** Required. The content of the text snippet as a string. Up to 250000 characters long.
mimeType	**string** Optional. The format of **content** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSnippet.FIELDS.content). Currently the only two allowed values are "text/html" and "text/plain". If left blank, the format is automatically determined from the type of the uploaded **content** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSnippet.FIELDS.content).
contentUri	**string** Output only. HTTP URI where you can download the content.

Document

A structured text document e.g. a PDF.

JSON representation

JSON representation

```
{
  "inputConfig": {
    object (DocumentInputConfig (https://cloud.google.com/vision/automl/docs/reference/rest/v1bet
  },
  "documentText": {
    object (TextSnippet (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  },
  "layout": [
    {
      object (Layout (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.lo
    }
  ],
  "documentDimensions": {
    object (DocumentDimensions (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta
  },
  "pageCount": number
}
```

Fields

inputConfig	object (DocumentInputConfig (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#DocumentInputConfig)) An input config specifying the content of the document.
documentText	object (TextSnippet (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSnippet)) The plain text version of this document.
layout[]	object (Layout (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Layout)) Describes the layout of the document. Sorted by [pageNumber][].

Fields	
documentDimensions	object (DocumentDimensions (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#DocumentDimensions)) The dimensions of the page in the document.
pageCount	number Number of pages in the document.

DocumentInputConfig

Input configuration of a **Document** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict# Document)

.

JSON representation

``
{
  "gcsSource": {
    object (GcsSource (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.
  }
}
``

Fields	
gcsSource	object (GcsSource (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.datasets.tableSpecs#GcsSource)) The Google Cloud Storage location of the document file. Only a single path should be given. Max supported size: 512MB. Supported extensions: .PDF.

Layout

Describes the layout information of a **textSegment**
(https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#
Layout.FIELDS.text_segment)
in the document.

JSON representation

```
{
  "textSegment": {
    object (TextSegment (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  },
  "pageNumber": number,
  "boundingPoly": {
    object (BoundingPoly (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/proje
  },
  "textSegmentType": enum (TextSegmentType (https://cloud.google.com/vision/automl/docs/refere
}
```

Fields	
textSegment	**object** (**TextSegment** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSegment)) Text Segment that represents a segment in **documentText** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Document.FIELDS.document_text) .
pageNumber	**number** Page number of the **textSegment** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Layout.FIELDS.text_segment) in the original document, starts from 1.

Fields	
boundingPoly	object (BoundingPoly (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#BoundingPoly)) The position of the textSegment (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Layout.FIELDS.text_segment) in the page. Contains exactly 4 normalizedVertices (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#BoundingPoly.FIELDS.normalized_vertices) and they are connected by edges in the order provided, which will represent a rectangle parallel to the frame. The NormalizedVertex-s (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#NormalizedVertex) are relative to the page. Coordinates are based on top-left as point (0,0).
textSegmentType	enum (TextSegmentType (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSegmentType)) The type of the textSegment (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#Layout.FIELDS.text_segment) in document.

TextSegment

A contiguous part of a text (string), assuming it has an UTF-8 NFC encoding.

JSON representation

JSON representation

```
{
  "content": string,
  "startOffset": string,
  "endOffset": string
}
```

Fields

content	string
	Output only. The content of the TextSegment.
startOffset	string ([int64](https://developers.google.com/discovery/v1/type-format) **format**) Required. Zero-based character index of the first character of the text segment (counting characters from the beginning of the text).
endOffset	string ([int64](https://developers.google.com/discovery/v1/type-format) **format**) Required. Zero-based character index of the first character past the end of the text segment (counting character from the beginning of the text). The character at the endOffset is NOT included in the text segment.

BoundingPoly

A bounding polygon of a detected object on a plane. On output both vertices and normalizedVertices are provided. The polygon is formed by connecting vertices in the order they are listed.

JSON representation

```
{
  "normalizedVertices": [
    {
      object (NormalizedVertex (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta
    }
  ]
}
```

Fields	
normalizedVertices[]	object (NormalizedVertex (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#NormalizedVertex)) Output only . The bounding polygon normalized vertices.

NormalizedVertex

A vertex represents a 2D point in the image. The normalized vertex coordinates are between 0 to 1 fractions relative to the original plane (image, video). E.g. if the plane (e.g. whole image) would have size 10 x 20 then a point with normalized coordinates (0.1, 0.3) would be at the position (1, 6) on that plane.

JSON representation

```
{
  "x": number,
  "y": number
}
```

Fields	
x	number Required. Horizontal coordinate.
y	number Required. Vertical coordinate.

TextSegmentType

The type of TextSegment in the context of the original document.

Enums	
TEXT_SEGMENT_TYPE_UNSPECIFIED	Should not be used.
TOKEN	The text segment is a token. e.g. word.
PARAGRAPH	The text segment is a paragraph.
FORM_FIELD	The text segment is a form field.
FORM_FIELD_NAME	The text segment is the name part of a form field. It will be treated as child of another FORM_FIELD TextSegment if its span is subspan of another TextSegment with type FORM_FIELD.
FORM_FIELD_CONTENTS	The text segment is the text content part of a form field. It will be treated as child of another FORM_FIELD TextSegment if its span is subspan of another TextSegment with type FORM_FIELD.
TABLE	The text segment is a whole table, including headers, and all rows.
TABLE_HEADER	The text segment is a table's headers. It will be treated as child of another TABLE TextSegment if its span is subspan of another TextSegment with type TABLE.
TABLE_ROW	The text segment is a row in table. It will be treated as child of another TABLE TextSegment if its span is subspan of another TextSegment with type TABLE.
TABLE_CELL	The text segment is a cell in table. It will be treated as child of another TABLE_ROW TextSegment if its span is subspan of another TextSegment with type TABLE_ROW.

DocumentDimensions

Message that describes dimension of a document.

JSON representation

JSON representation

```
{
  "unit": enum (DocumentDimensionUnit (https://cloud.google.com/vision/automl/docs/reference/re
  "width": number,
  "height": number
}
```

Fields

unit	enum (**DocumentDimensionUnit** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#DocumentDimensionUnit)) Unit of the dimension.
width	**number** Width value of the document, works together with the unit.
height	**number** Height value of the document, works together with the unit.

DocumentDimensionUnit

Unit of the document dimension.

Enums

DOCUMENT_DIMENSION_UNIT_UNSPECIFIED	Should not be used.
INCH	Document dimension is measured in inches.
CENTIMETER	Document dimension is measured in centimeters.
POINT	Document dimension is measured in points. 72 points = 1 inch.

Row

A representation of a row in a relational table.

JSON representation
| ```
{
  "columnSpecIds": [
    string
  ],
  "values": [
    value
  ]
}
``` |

Fields	
columnSpecIds[]	**string** The resource IDs of the column specs describing the columns of the row. If set must contain, but possibly in a different order, all input feature **columnSpecIds** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models#TablesModelMetadata.FIELDS.input_feature_co lumn_specs) of the Model this row is being passed to. Note: The below `values` field must match order of this field, if this field is set.
values[]	**value** (**Value** (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Value) **format)** Required. The values of the row cells, given in the same order as the columnSpecIds, or, if not set, then in the same order as input feature **columnSpecs** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models#TablesModelMetadata.FIELDS.input_feature_co lumn_specs) of the Model this row is being passed to.

AnnotationPayload

Contains annotation information that is relevant to AutoML.

JSON representation

```
{
  "annotationSpecId": string,
  "displayName": string,

  // Union field detail can be only one of the following:
  "translation": {
    object (TranslationAnnotation (https://cloud.google.com/vision/automl/docs/reference/rest/v1
  },
  "classification": {
    object (ClassificationAnnotation (https://cloud.google.com/vision/automl/docs/reference/rest
  },
  "imageObjectDetection": {
    object (ImageObjectDetectionAnnotation (https://cloud.google.com/vision/automl/docs/refere
  },
  "videoClassification": {
    object (VideoClassificationAnnotation (https://cloud.google.com/vision/automl/docs/referen
  },
  "videoObjectTracking": {
    object (VideoObjectTrackingAnnotation (https://cloud.google.com/vision/automl/docs/referen
  },
  "textExtraction": {
    object (TextExtractionAnnotation (https://cloud.google.com/vision/automl/docs/reference/rest
  },
  "textSentiment": {
    object (TextSentimentAnnotation (https://cloud.google.com/vision/automl/docs/reference/rest/
  },
  "tables": {
    object (TablesAnnotation (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/
  }
  // End of list of possible types for union field detail.
}
```

Fields

Fields	
`annotationSpecId`	`string` Output only . The resource ID of the annotation spec that this annotation pertains to. The annotation spec comes from either an ancestor dataset, or the dataset that was used to train the model in use.
`displayName`	`string` Output only. The value of __displayName__ (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.datasets.annotationSpecs#AnnotationSpec.FIELDS.display_name) when the model was trained. Because this field returns a value at model training time, for different models trained using the same dataset, the returned value could be different as model owner could update the `displayName` between any two model training.
Union field `detail`. Output only . Additional information about the annotation specific to the AutoML domain. `detail` can be only one of the following:	
`translation`	`object` (__TranslationAnnotation__ (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TranslationAnnotation)) Annotation details for translation.
`classification`	`object` (__ClassificationAnnotation__ (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#ClassificationAnnotation)) Annotation details for content or image classification.
`imageObjectDetection`	`object` (__ImageObjectDetectionAnnotation__ (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#ImageObjectDetectionAnnotation)) Annotation details for image object detection.

Fields	
`videoClassification`	object ([VideoClassificationAnnotation](https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#VideoClassificationAnnotation)) Annotation details for video classification. Returned for Video Classification predictions.
`videoObjectTracking`	object ([VideoObjectTrackingAnnotation](https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#VideoObjectTrackingAnnotation)) Annotation details for video object tracking.
`textExtraction`	object ([TextExtractionAnnotation](https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextExtractionAnnotation)) Annotation details for text extraction.
`textSentiment`	object ([TextSentimentAnnotation](https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSentimentAnnotation)) Annotation details for text sentiment.
`tables`	object ([TablesAnnotation](https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TablesAnnotation)) Annotation details for Tables.

TranslationAnnotation

Annotation details specific to translation.

JSON representation

```
{
  "translatedContent": {
    object (TextSnippet (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  }
}
```

Fields

translatedContent	object (TextSnippet (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSnippet)) Output only . The translated content.

ClassificationAnnotation

Contains annotation details specific to classification.

JSON representation

```
{
  "score": number
}
```

Fields

score	number Output only. A confidence estimate between 0.0 and 1.0. A higher value means greater confidence that the annotation is positive. If a user approves an annotation as negative or positive, the score value remains unchanged. If a user creates an annotation, the score is 0 for negative or 1 for positive.

ImageObjectDetectionAnnotation

Annotation details for image object detection.

JSON representation

```
{
  "boundingBox": {
    object (BoundingPoly (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/proje
  },
  "score": number
}
```

Fields

boundingBox	object (BoundingPoly (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#BoundingPoly)) Output only. The rectangle representing the object location.
score	number Output only. The confidence that this annotation is positive for the parent example, value in [0, 1], higher means higher positivity confidence.

VideoClassificationAnnotation

Contains annotation details specific to video classification.

JSON representation

```
{
  "type": string,
  "classificationAnnotation": {
    object (ClassificationAnnotation (https://cloud.google.com/vision/automl/docs/reference/res
  },
  "timeSegment": {
    object (TimeSegment (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  }
}
```

Fields	
type	**string** Output only. Expresses the type of video classification. Possible values: • `segment` - Classification done on a specified by user time segment of a video. AnnotationSpec is answered to be present in that time segment, if it is present in any part of it. The video ML model evaluations are done only for this type of classification. • `shot` - 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. • `1s_interval` - 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.
classificationAnnotation	**object** (**ClassificationAnnotation** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#ClassificationAnnotation)) Output only . The classification details of this annotation.
timeSegment	**object** (**TimeSegment** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TimeSegment)) Output only . The time segment of the video to which the annotation applies.

TimeSegment

A time period inside of an example that has a time dimension (e.g. video).

JSON representation

```
{
  "startTimeOffset": string,
  "endTimeOffset": string
}
```

Fields

| startTimeOffset | string (Duration (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Duration) format)

Start of the time segment (inclusive), represented as the duration since the example start.

A duration in seconds with up to nine fractional digits, terminated by 's'. Example: "3.5s". |
|---|---|
| endTimeOffset | string (Duration (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Duration) format)

End of the time segment (exclusive), represented as the duration since the example start.

A duration in seconds with up to nine fractional digits, terminated by 's'. Example: "3.5s". |

VideoObjectTrackingAnnotation

Annotation details for video object tracking.

JSON representation

JSON representation

```
{
  "instanceId": string,
  "timeOffset": string,
  "boundingBox": {
    object (BoundingPoly (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/proje
  },
  "score": number
}
```

Fields

instanceId	**string** Optional. The instance of the object, expressed as a positive integer. Used to tell apart objects of the same type (i.e. AnnotationSpec) when multiple are present on a single example. NOTE: Instance ID prediction quality is not a part of model evaluation and is done as best effort. Especially in cases when an entity goes off-screen for a longer time (minutes), when it comes back it may be given a new instance ID.
timeOffset	**string** (Duration (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Duration) **format**) Required. A time (frame) of a video to which this annotation pertains. Represented as the duration since the video's start. A duration in seconds with up to nine fractional digits, terminated by 's'. Example: "**3.5s**".
boundingBox	**object** (BoundingPoly (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#BoundingPoly)) Required. The rectangle representing the object location on the frame (i.e. at the timeOffset of the video).

Fields	
score	number Output only. The confidence that this annotation is positive for the video at the timeOffset, value in [0, 1], higher means higher positivity confidence. For annotations created by the user the score is 1. When user approves an annotation, the original float score is kept (and not changed to 1).

TextExtractionAnnotation

Annotation for identifying spans of text.

JSON representation
| ```
{
  "score": number,
  "textSegment": {
    object (TextSegment (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  }
}
``` |

Fields	
score	number Output only. A confidence estimate between 0.0 and 1.0. A higher value means greater confidence in correctness of the annotation.
textSegment	object (TextSegment (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#TextSegment)) An entity annotation will set this, which is the part of the original text to which the annotation pertains.

TextSentimentAnnotation

Contains annotation details specific to text sentiment.

JSON representation
```{   "sentiment": number }```

Fields	
sentiment	number Output only. The sentiment with the semantic, as given to the **AutoMl.ImportData** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.datasets/importData#google.cloud.automl.v1beta1.AutoMl.ImportData) when populating the dataset from which the model used for the prediction had been trained. The sentiment values are between 0 and Dataset.text_sentiment_dataset_metadata.sentiment_max (inclusive), with higher value meaning more positive sentiment. They are completely relative, i.e. 0 means least positive sentiment and sentimentMax means the most positive from the sentiments present in the train data. Therefore e.g. if train data had only negative sentiment, then sentimentMax, would be still negative (although least negative). The sentiment shouldn't be confused with "score" or "magnitude" from the previous Natural Language Sentiment Analysis API.

TablesAnnotation

Contains annotation details specific to Tables.

JSON representation

JSON representation

```
{
  "score": number,
  "predictionInterval": {
    object (DoubleRange (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projec
  },
  "value": value,
  "tablesModelColumnInfo": [
    {
      object (TablesModelColumnInfo (https://cloud.google.com/vision/automl/docs/reference/rest/
    }
  ]
}
```

Fields

score	**number** Output only. A confidence estimate between 0.0 and 1.0, inclusive. A higher value means greater confidence in the returned value. For **targetColumnSpec** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models#TablesModelMetadata.FIELDS.target_column_spec) of FLOAT64 data type the score is not populated.
predictionInterval	**object (DoubleRange** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models/predict#DoubleRange)) Output only. Only populated when **targetColumnSpec** (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/projects.locations.models#TablesModelMetadata.FIELDS.target_column_spec) has FLOAT64 data type. An interval in which the exactly correct target value has 95% chance to be in.

Fields	

value	value (Value
	(https://developers.google.com/protocol-
	buffers/docs/reference/google.protobuf#google.protobuf.Value)
	format)
	
	The predicted value of the row's
	
	target_column
	(https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p
	rojects.locations.models#TablesModelMetadata.FIELDS.target_column_s
	pec)
	. The value depends on the column's DataType:
	
	• CATEGORY - the predicted (with the above confidence **score**)
	  CATEGORY value.
	
	• FLOAT64 - the predicted (with above **predictionInterval**) FLOAT64
	  value.

Fields	
tablesModelColumnInfo[]	object (<u>TablesModelColumnInfo</u> (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models#TablesModelColumnInfo)) Output only. Auxiliary information for each of the model's <u>inputFeatureColumnSpecs</u> (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models#TablesModelMetadata.FIELDS.input_feature_co lumn_specs) with respect to this particular prediction. If no other fields than <u>columnSpecName</u> (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models#TablesModelColumnInfo.FIELDS.column_spec_ name) and <u>columnDisplayName</u> (https://cloud.google.com/vision/automl/docs/reference/rest/v1beta1/p rojects.locations.models#TablesModelColumnInfo.FIELDS.column_displa y_name) would be populated, then this whole field is not.

DoubleRange

A range between two double numbers.

JSON representation

``
{
  "start": number,
  "end": number
}
``

Fields

Fields	
start	number
	Start of the range, inclusive.
end	number
	End of the range, exclusive.