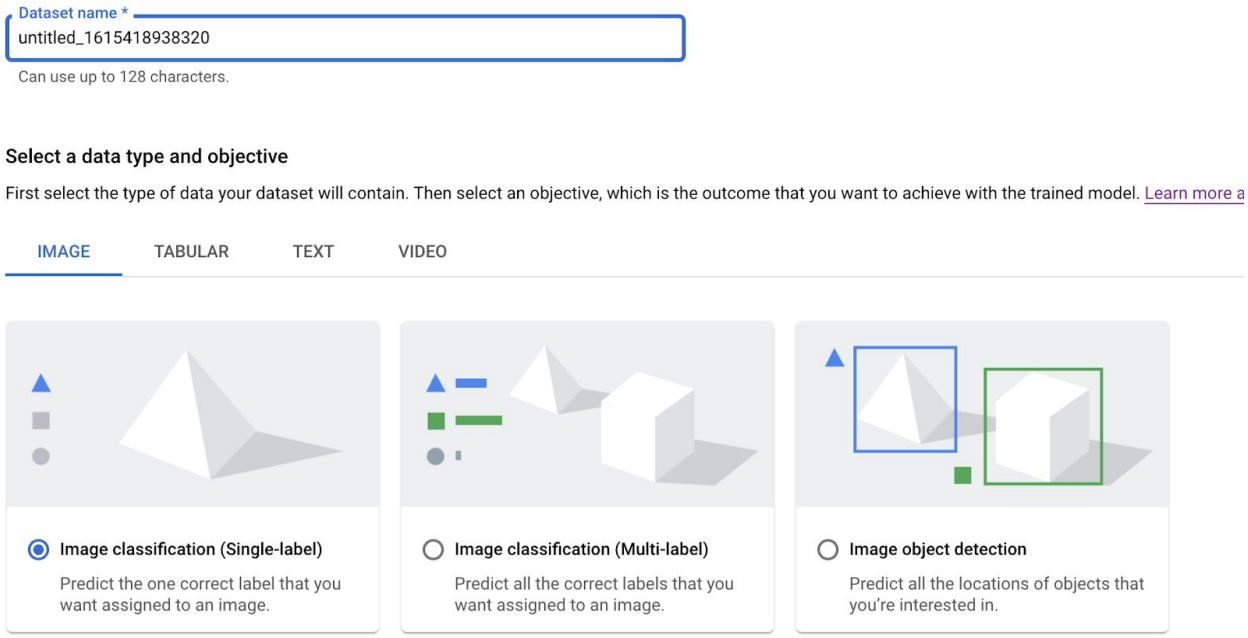
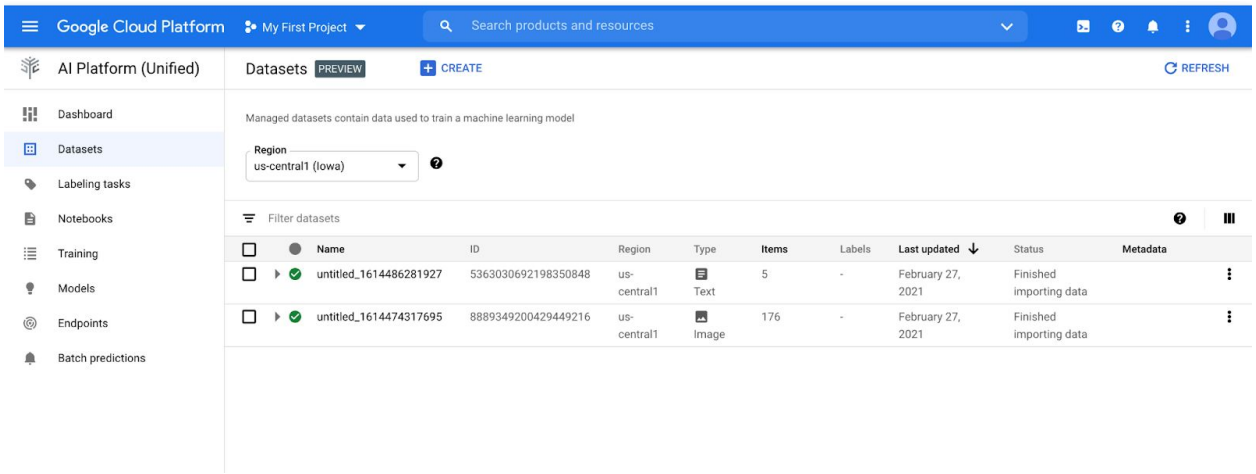
Content

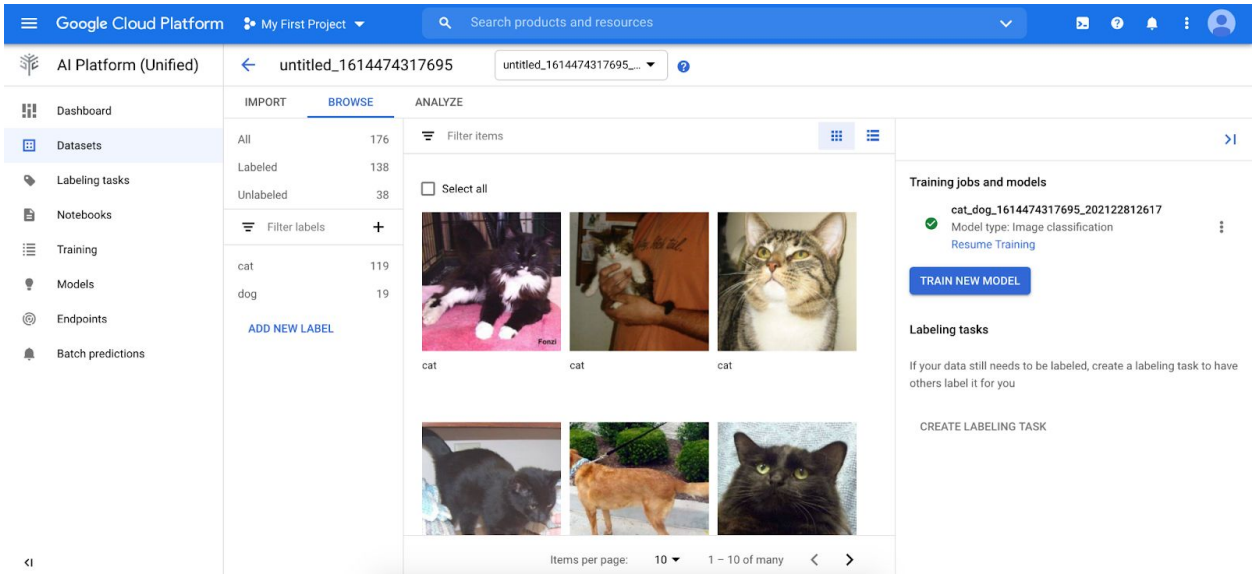
Hello Image

1. Create a dataset, select Image classification (single-label)

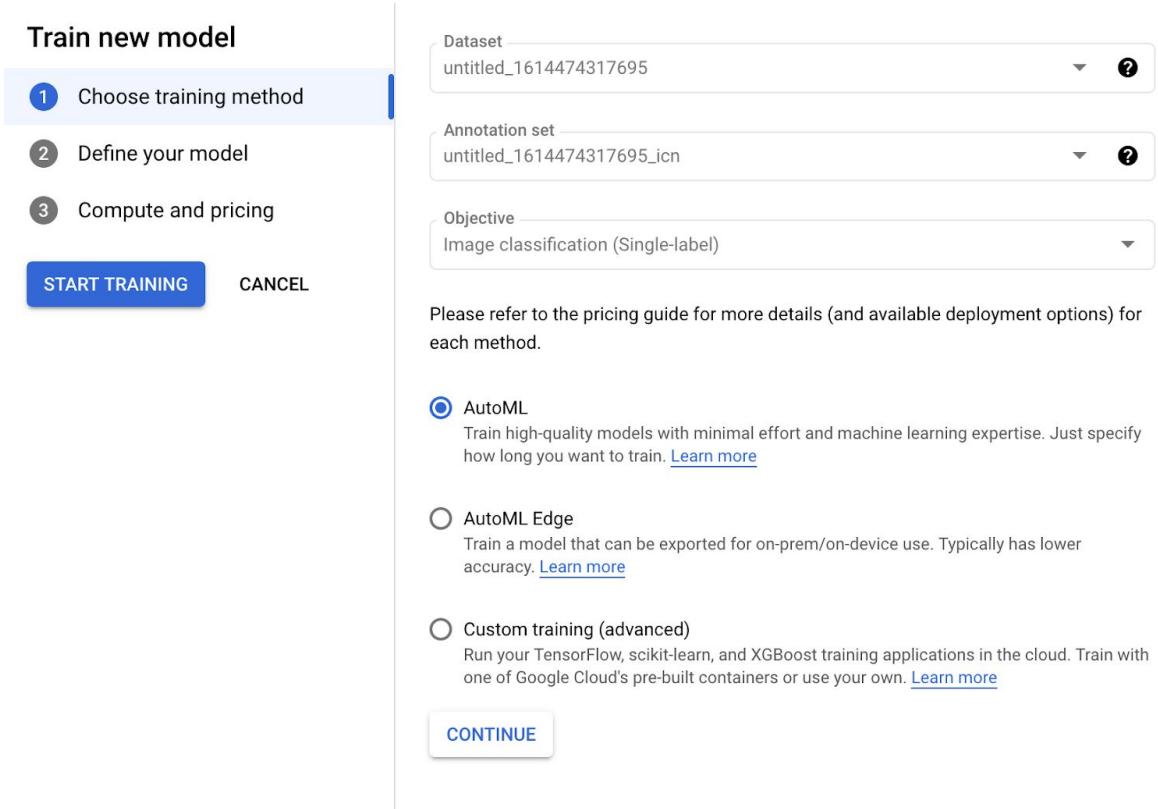


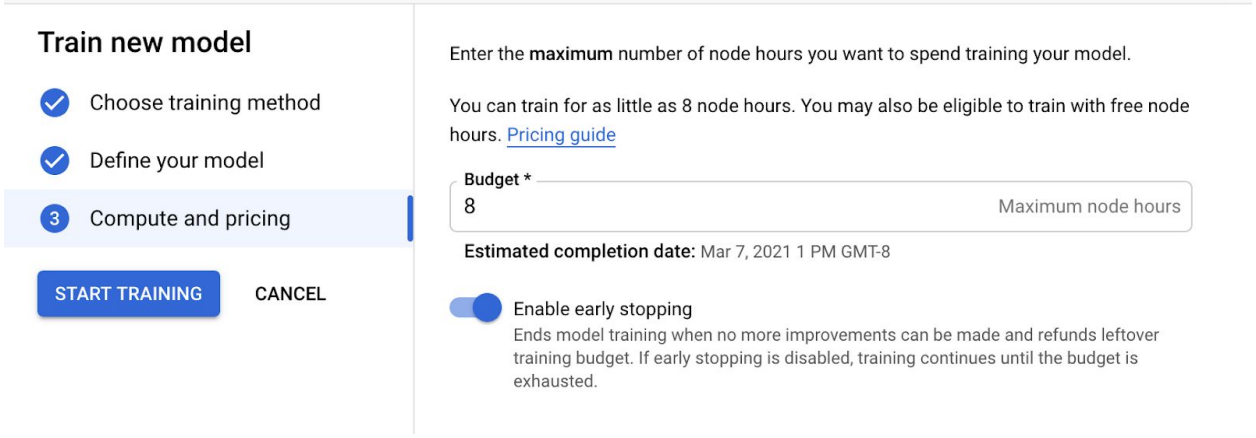
Upload dataset of cat/dog images

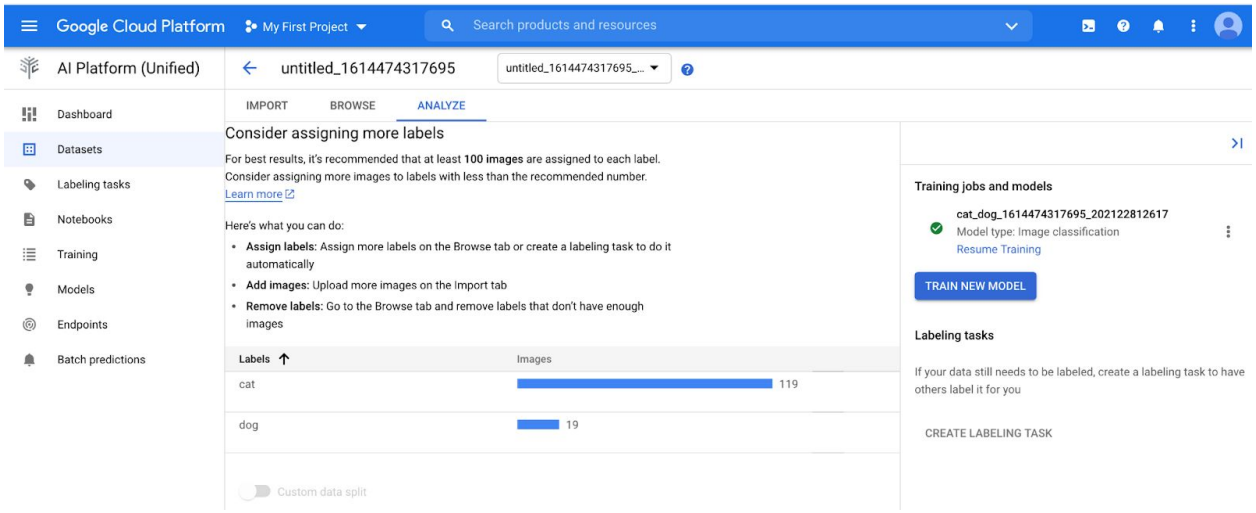


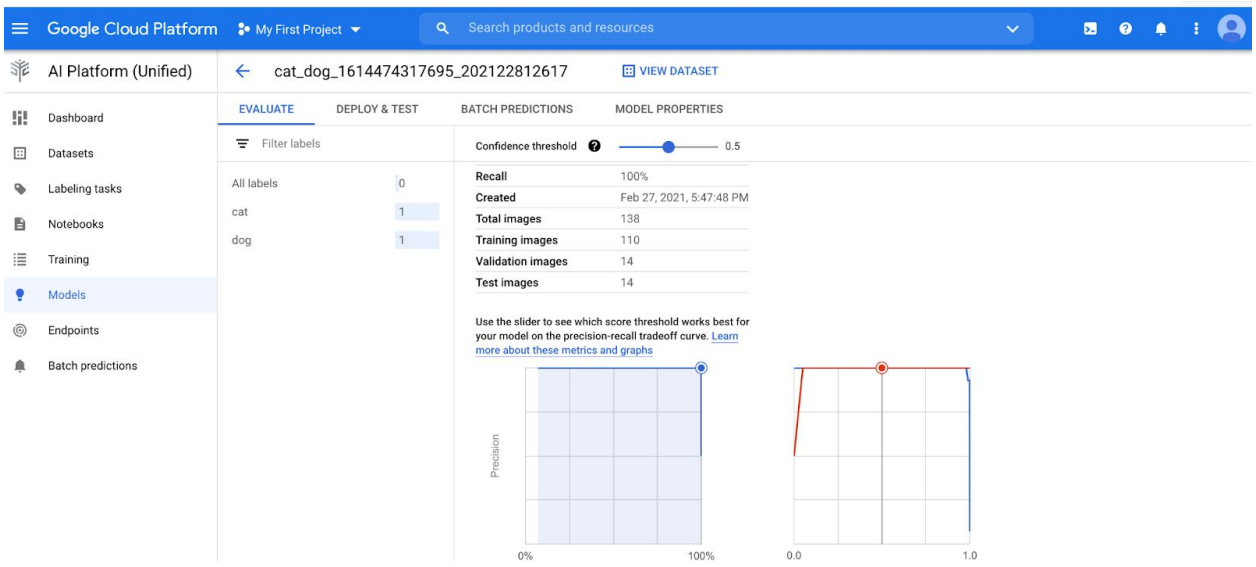


2. Train a new model

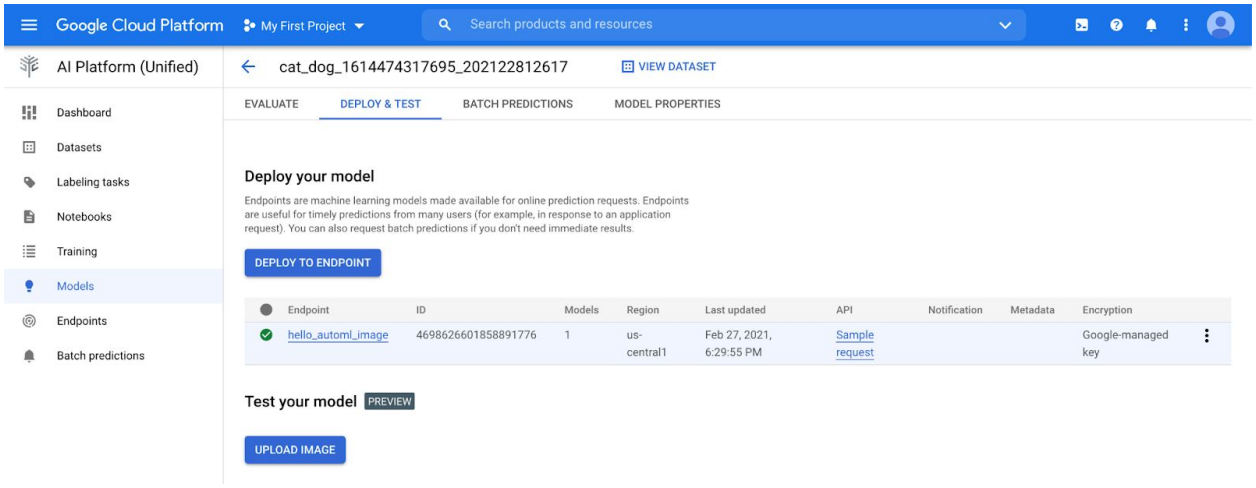


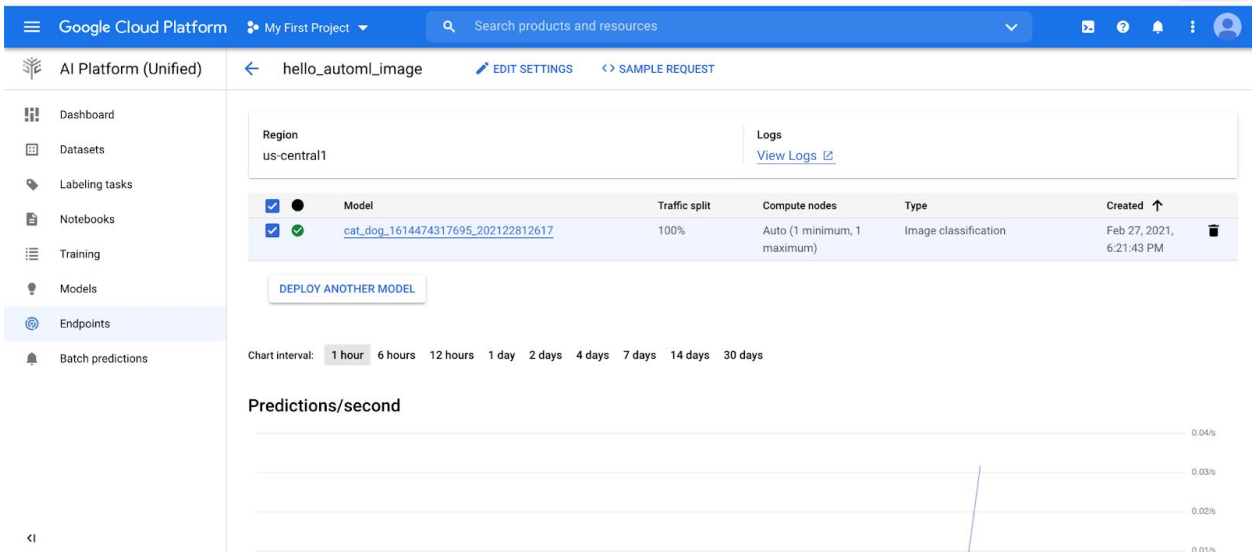




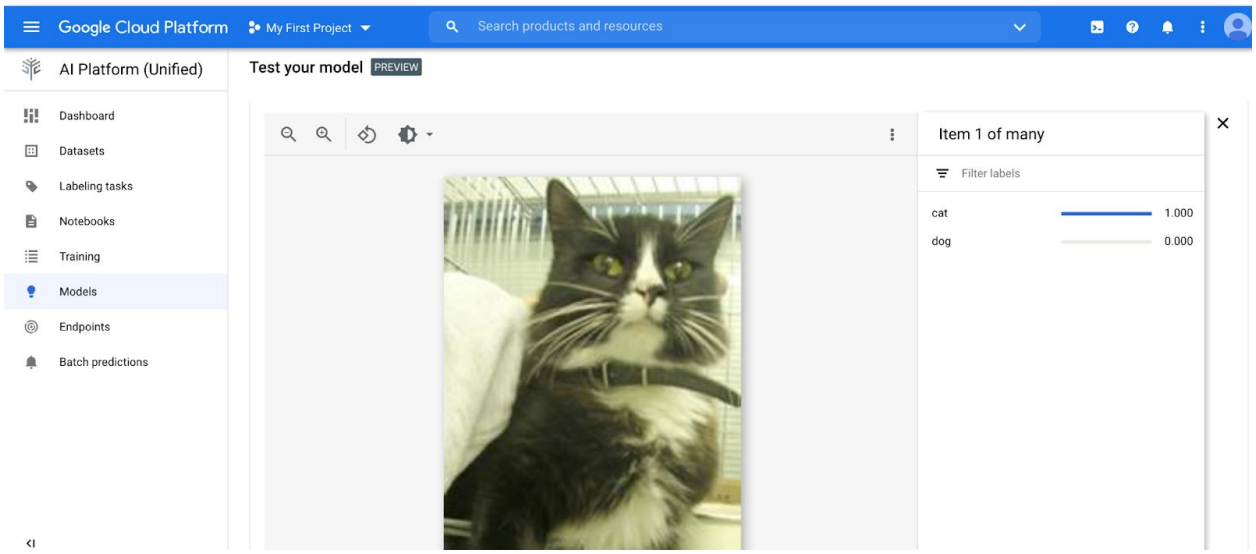


3. Deploy to end point



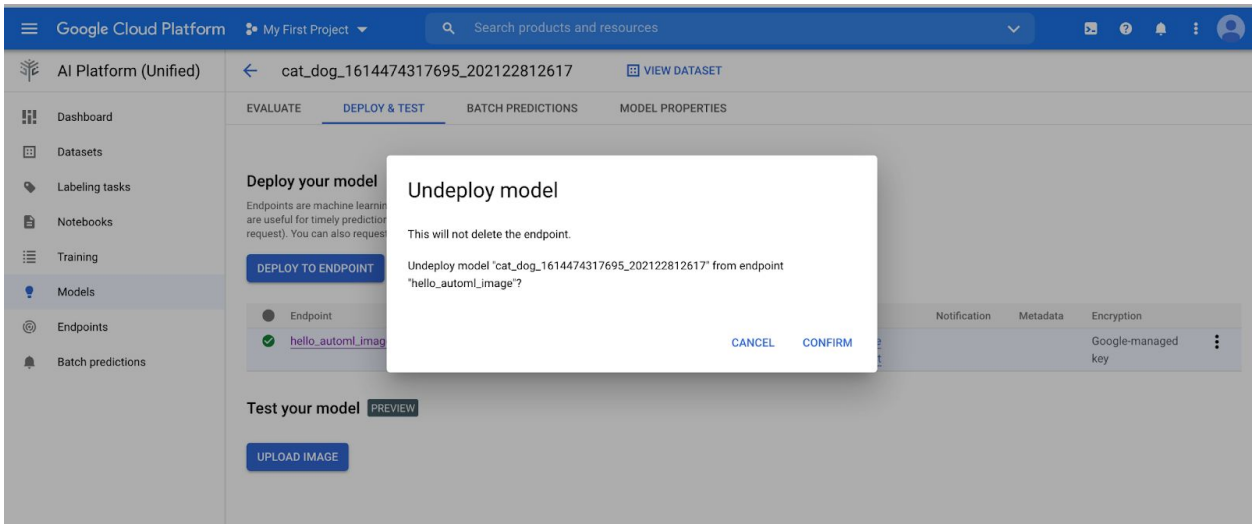


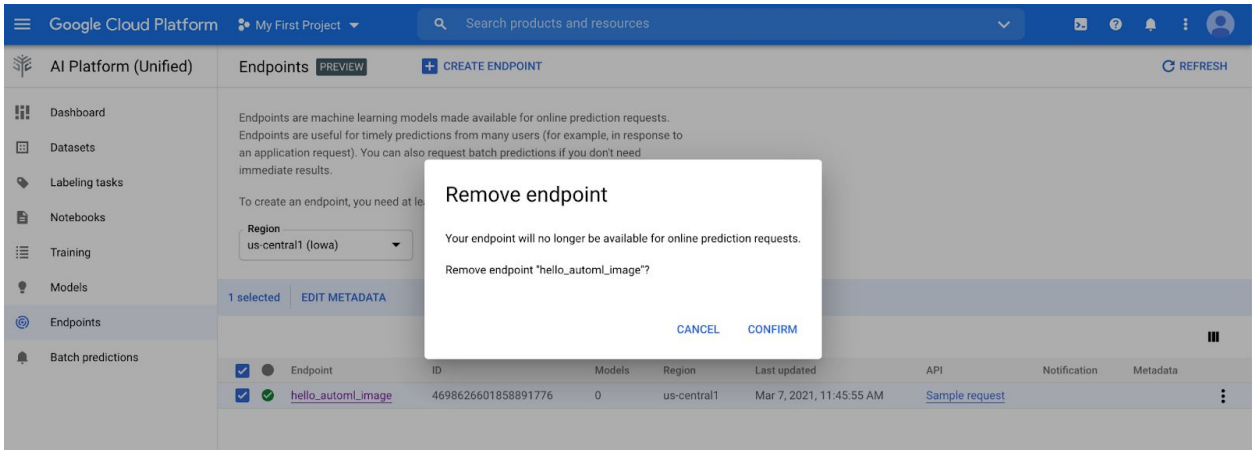
4. Test model



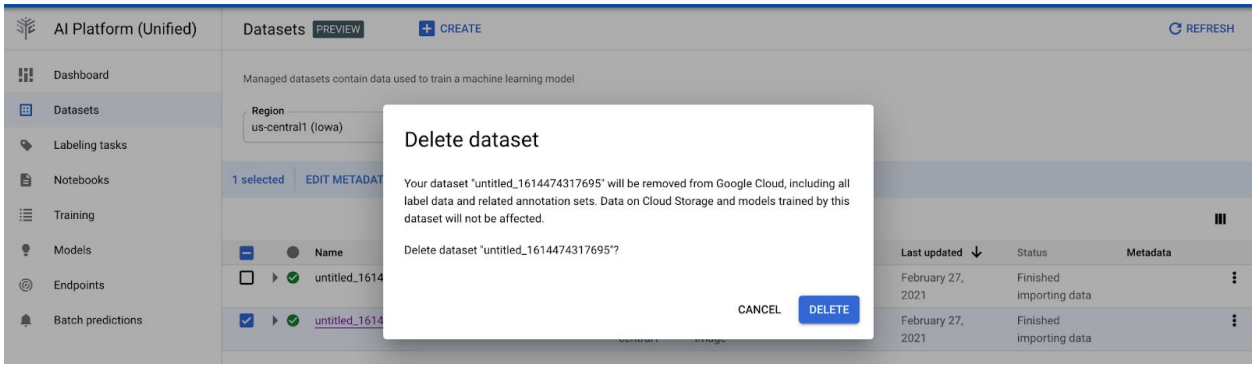
5. Cleanup

Undeploy model and remove endpoint





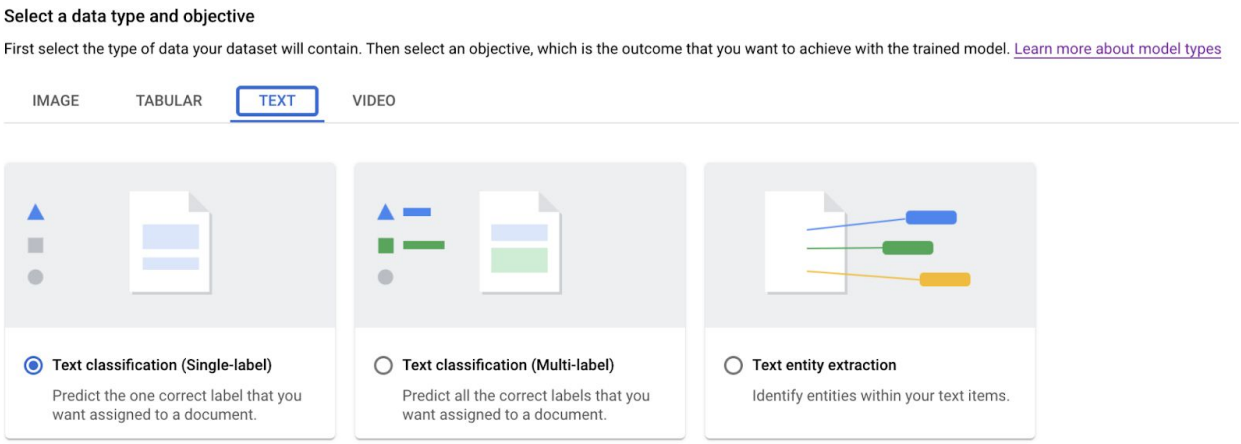
Delete model and delete dataset



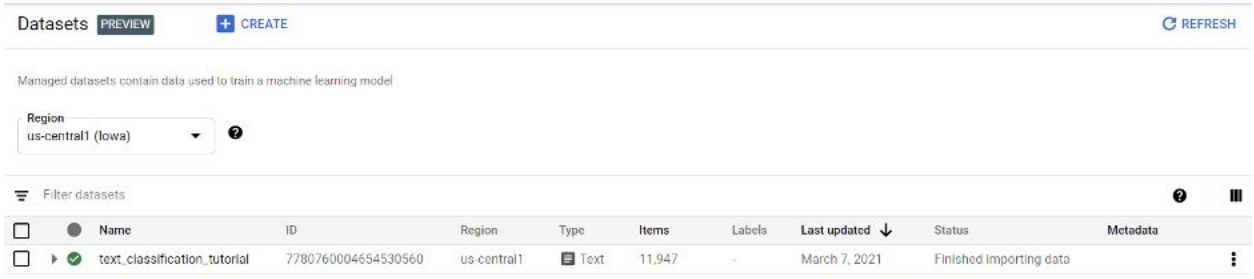
Hello Text

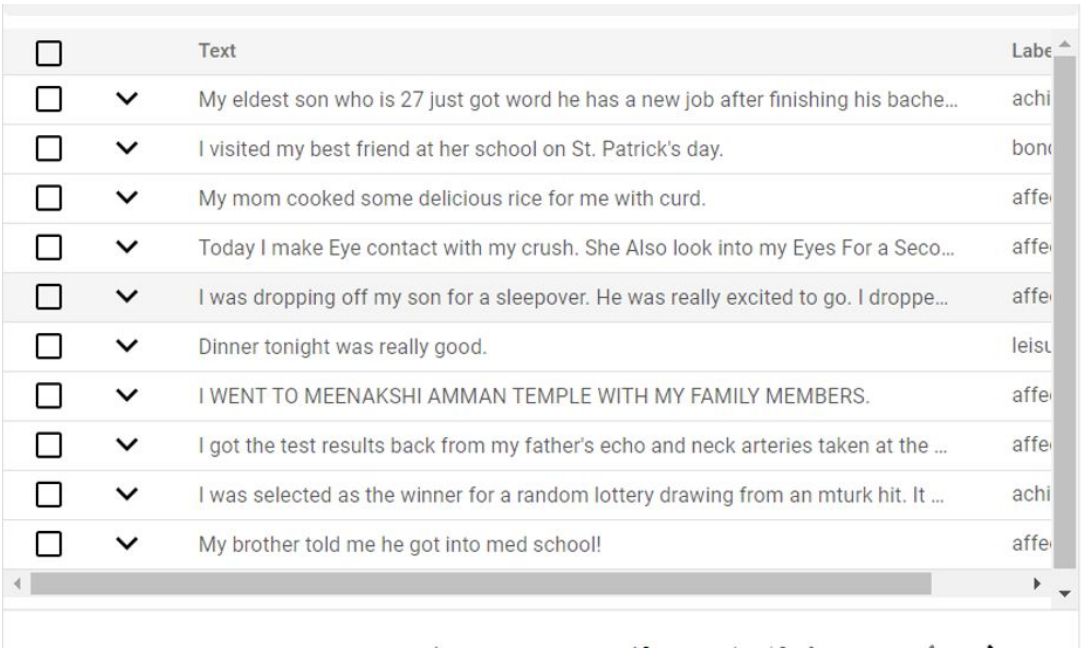
1. Create a dataset

Create a dataset by selecting Text Classification (Single Label)

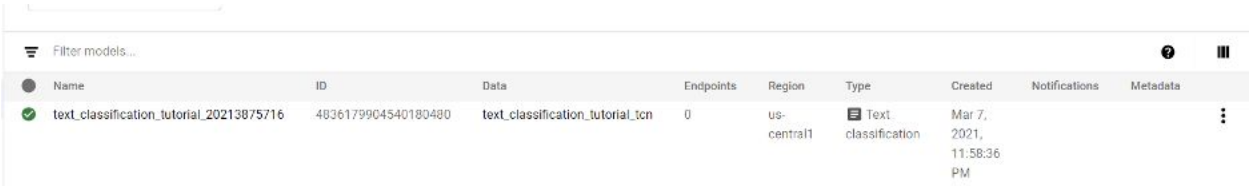


Using the dataset in tutorial





2. Train new model



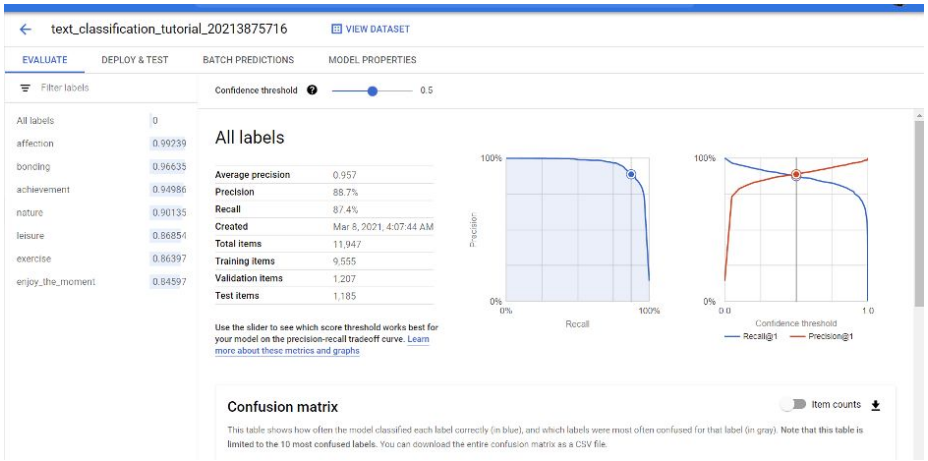
EVALUATE | DEPLOY & TEST | BATCH PREDICTIONS | MODEL PROPERTIES

This model finished training on Mar 8, 2021, 4:07:52 AM.

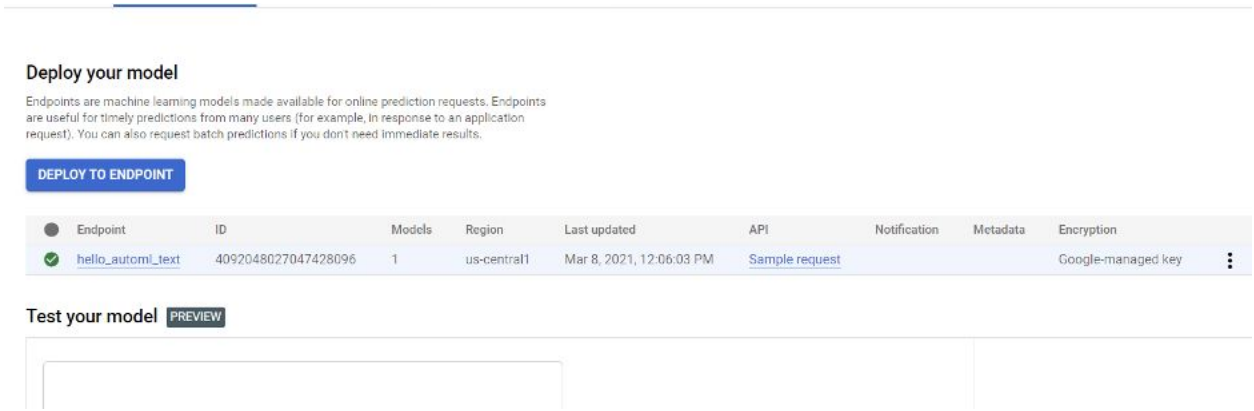
Status	Succeeded
Model ID	4836179904540180480
Training pipeline ID	5360136777594044416
Created	Mar 7, 2021, 11:58:36 PM
Training time	4 hr 9 min
Region	us-central1
Encryption type	Google-managed key

Dataset	text_classification_tutorial
Dataset ID	7780760004654530560
Annotation set	text_classification_tutorial_tcn
Data split	Randomly assigned (80/10/10)
Total items	11,947
Training items	9,555 (80.0%)
Validation items	1,207 (10.1%)
Test items	1,185 (9.9%)

Algorithm	AutoML
Objective	Text classification (Single-label)

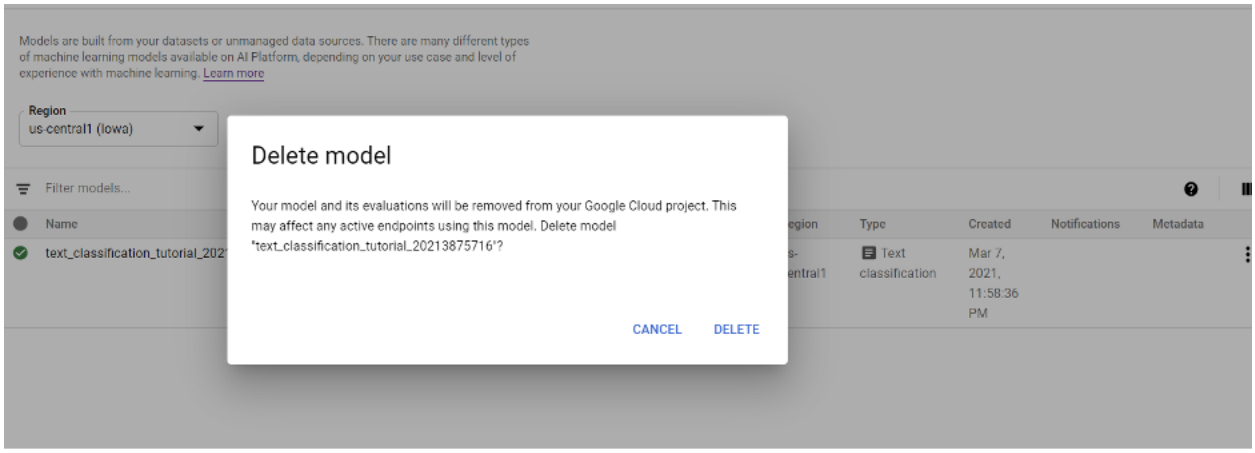


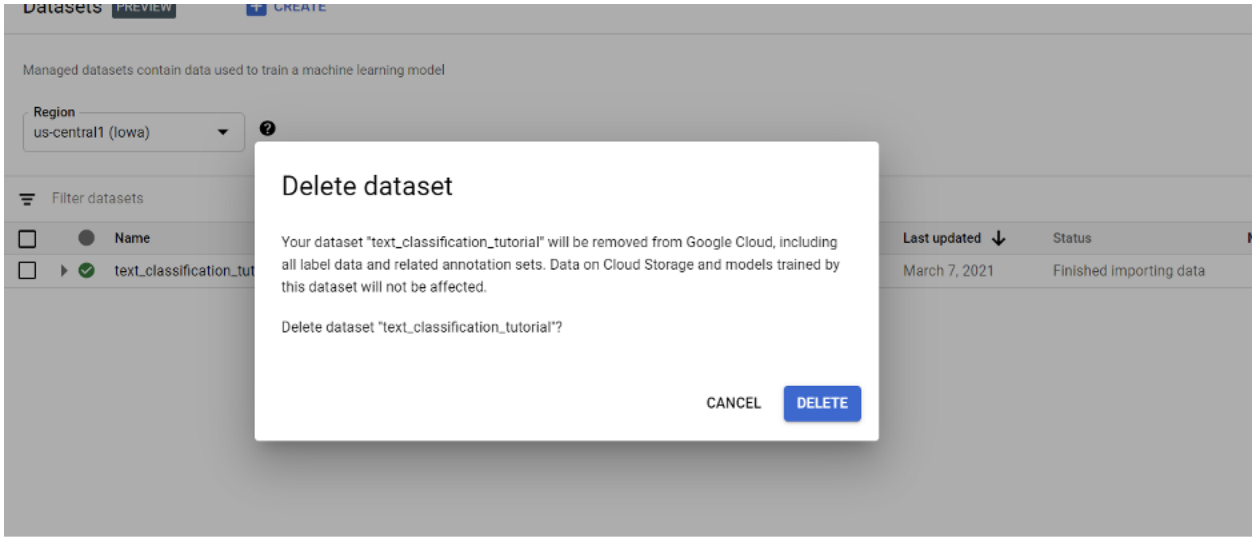
3. Deploy to end point



4. Test model

5. CLeanup

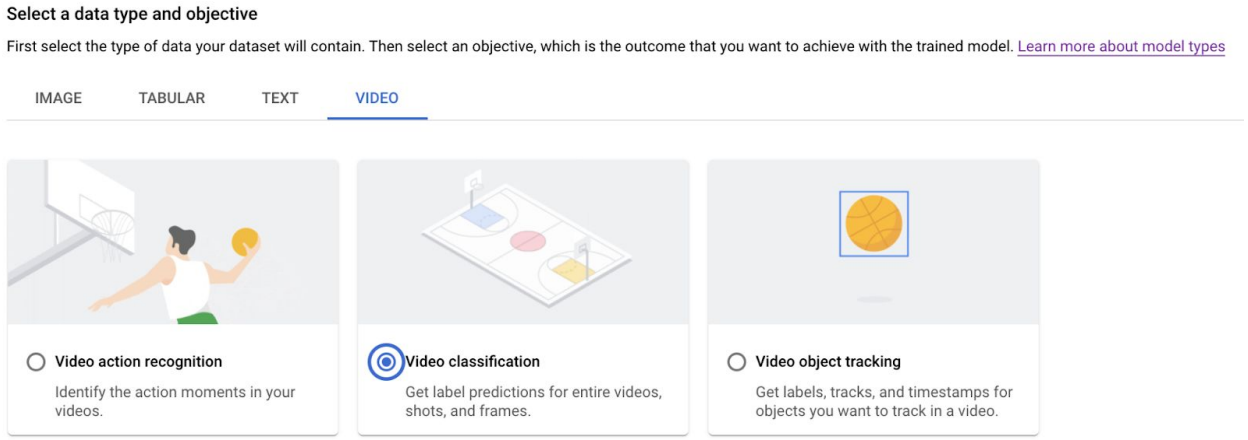




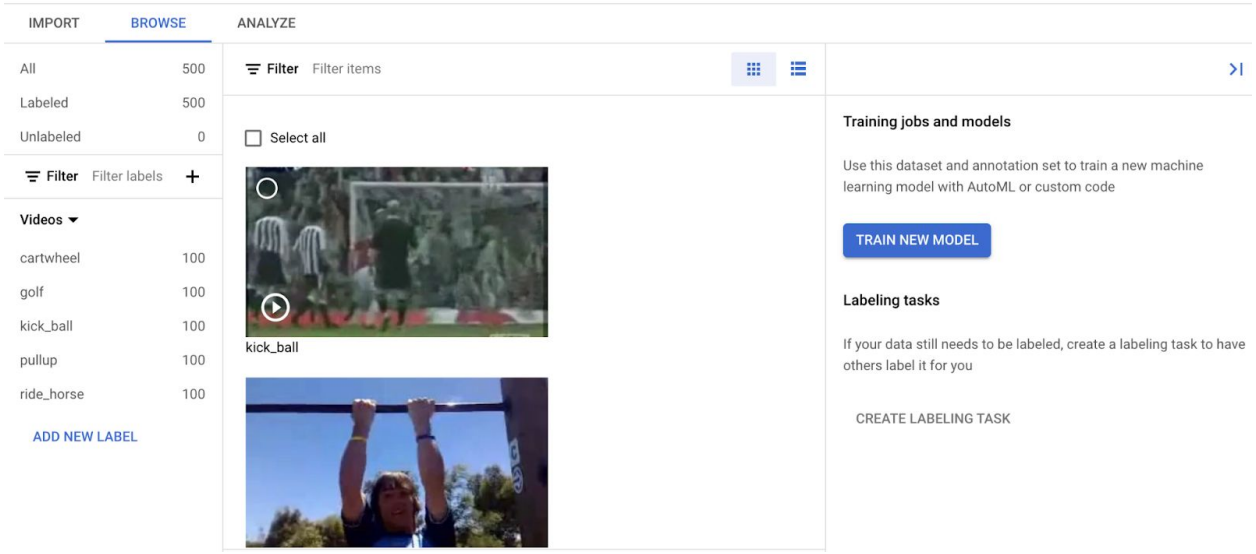
Hello Video

1. Create a dataset

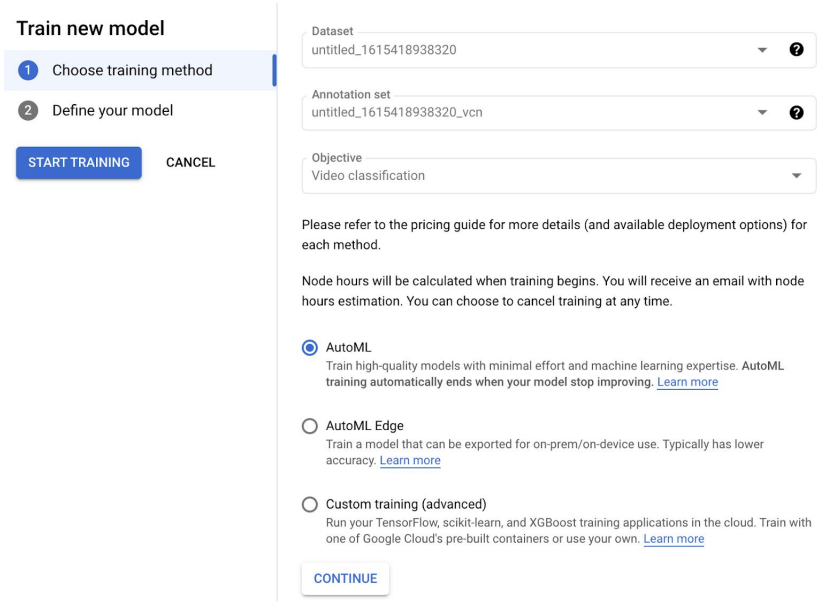
Create a dataset by selecting



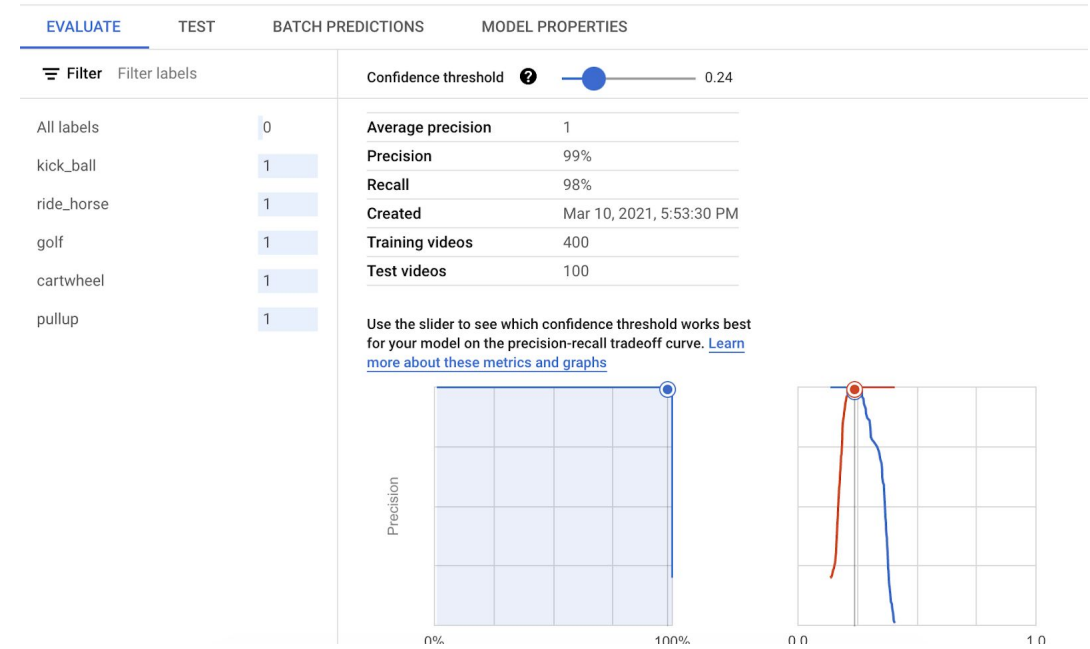
Importing the demo dataset:
`automl-video-demo-data/hmdb_split1_5classes_all.csv`

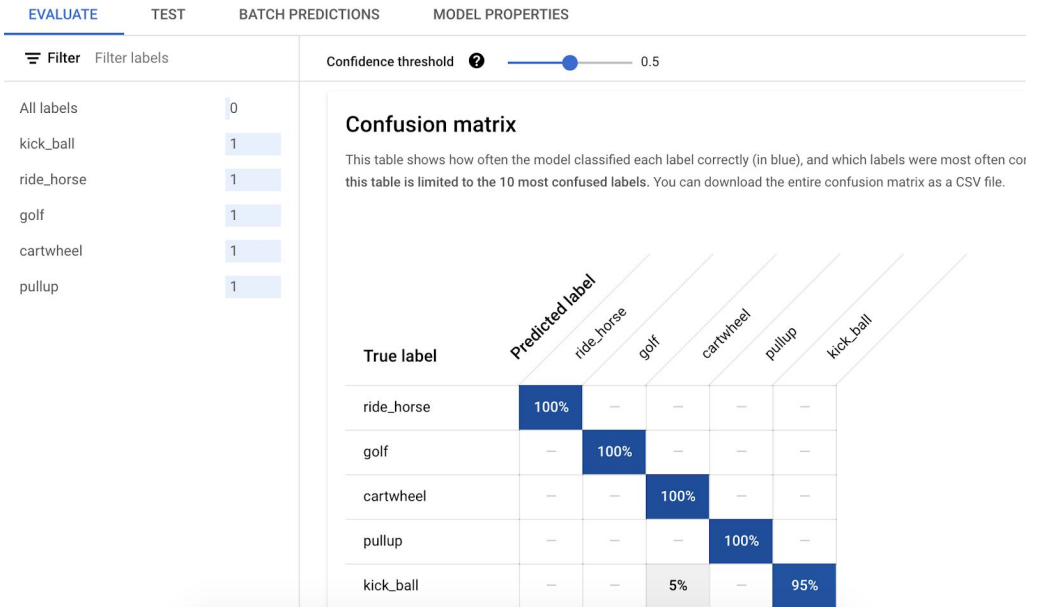


2. Train new model



Converting between the models output scores to a set of applicable labels requires a threshold. Lower thresholds typically increase recall but lower precision.





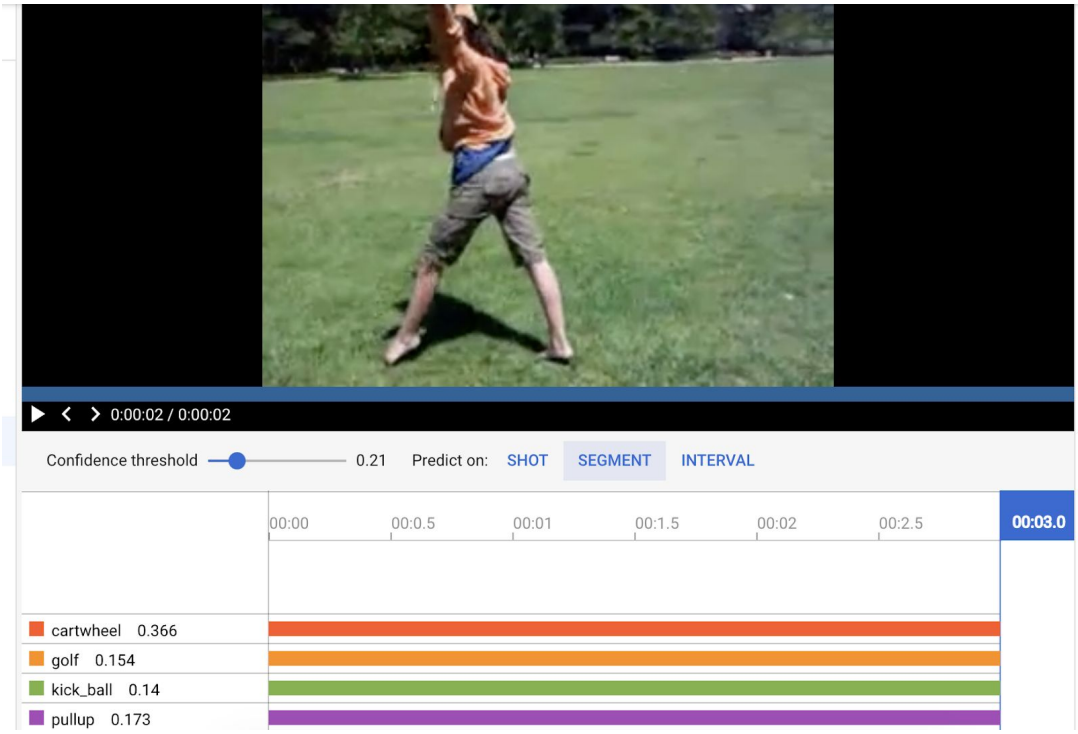
3. Batch Prediction

Create a batch prediction using source `automl-video-demo-data/hmdb_split1_predict.jsonl`

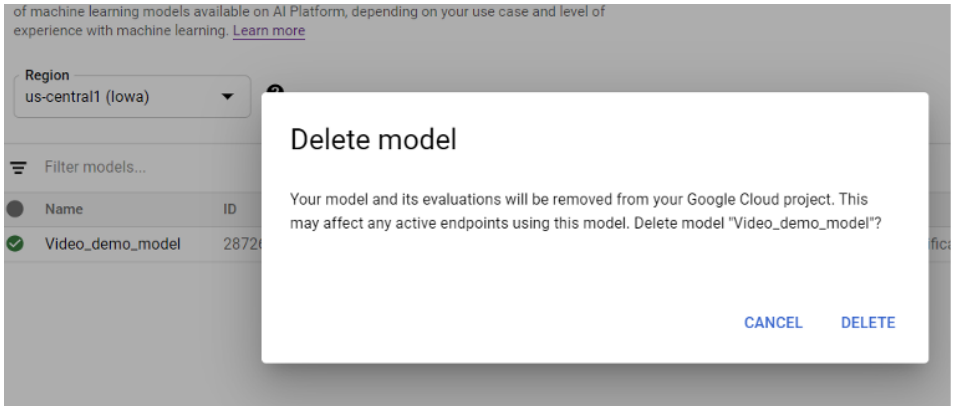
mybatch

Model	untitled_1615418938320_2021310234919
Objective	Video classification
Import location	gs://automl-video-demo-data/hmdb_split1_predict.jsonl
Total items	5
Predicted items	5
Created	Mar 10, 2021 at 09:21PM
Updated	Mar 10, 2021 at 09:22PM
Elapsed time	44 sec
Status	Completed without errors
Export location	gs://cloud-ai-platform-1221d4f9-ffb8-49f9-b973-02477d2a76b5/predict_results/prediction-untitled_1615418938320_20213

VIEW RESULTS



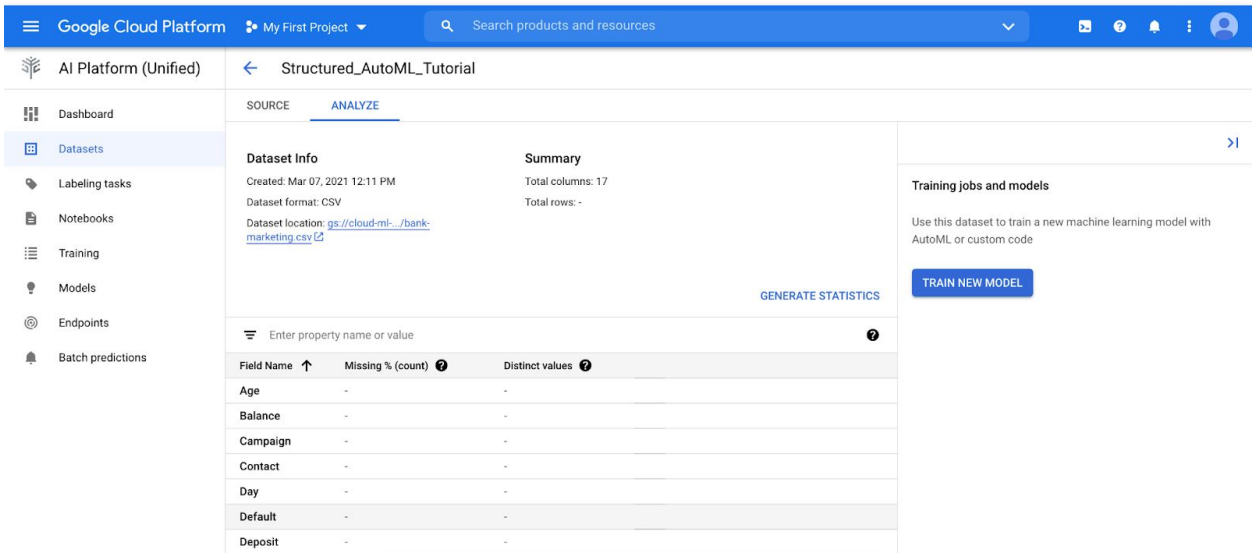
4. Cleanup



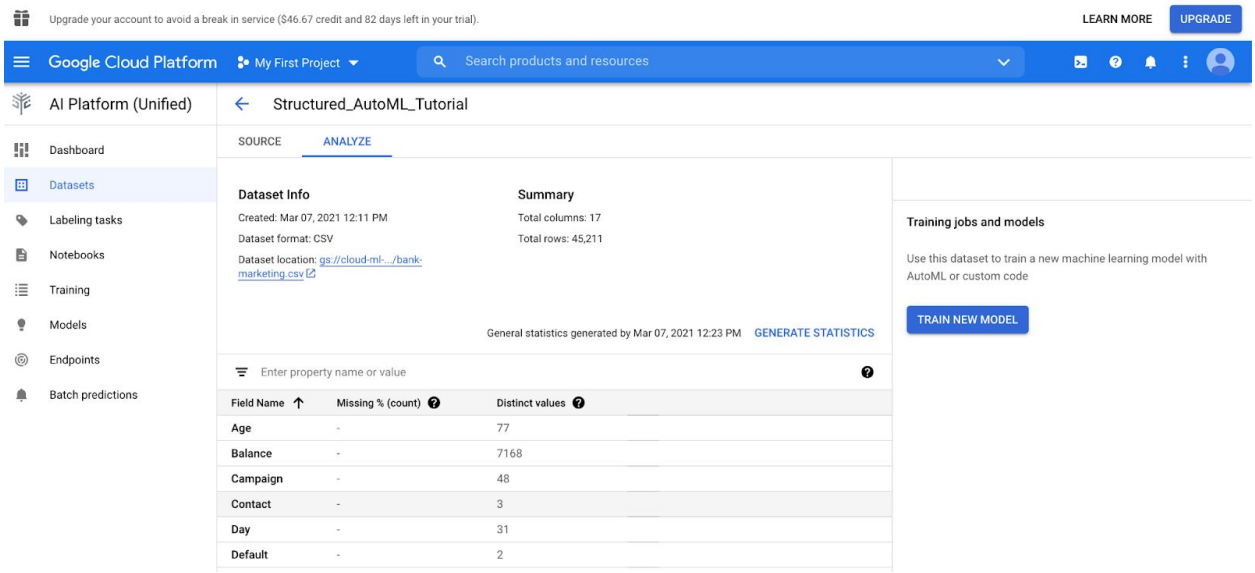
Hello Tabular

1. Create a dataset

Select an import file from Cloud Storage , use dataset in cloud storage `cloud-ml-tables-data/bank-marketing.csv`

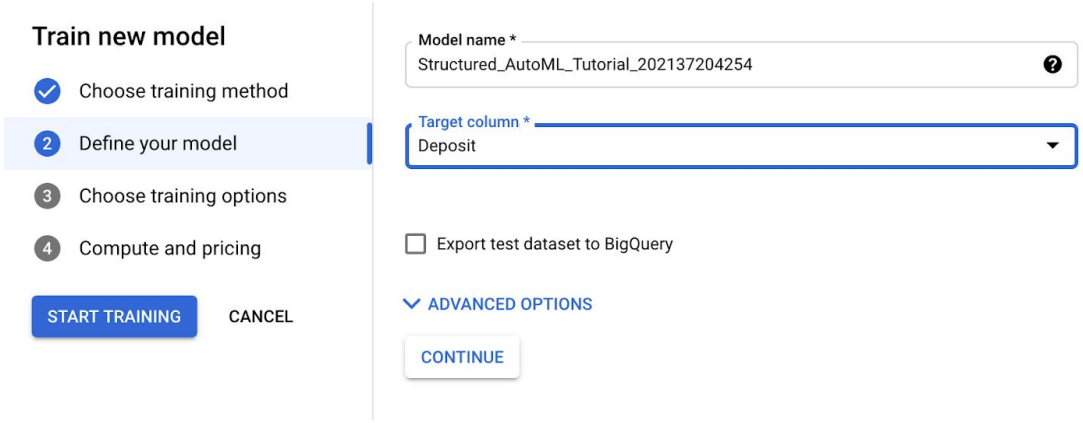


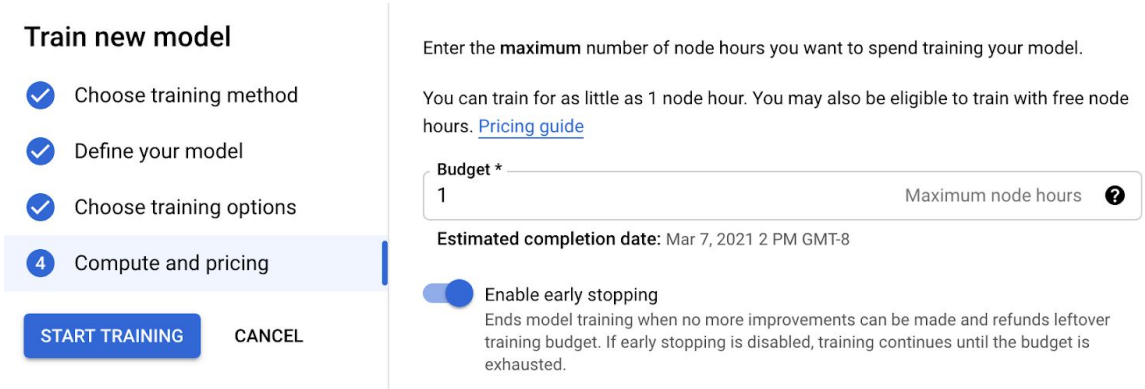
Generate statistics

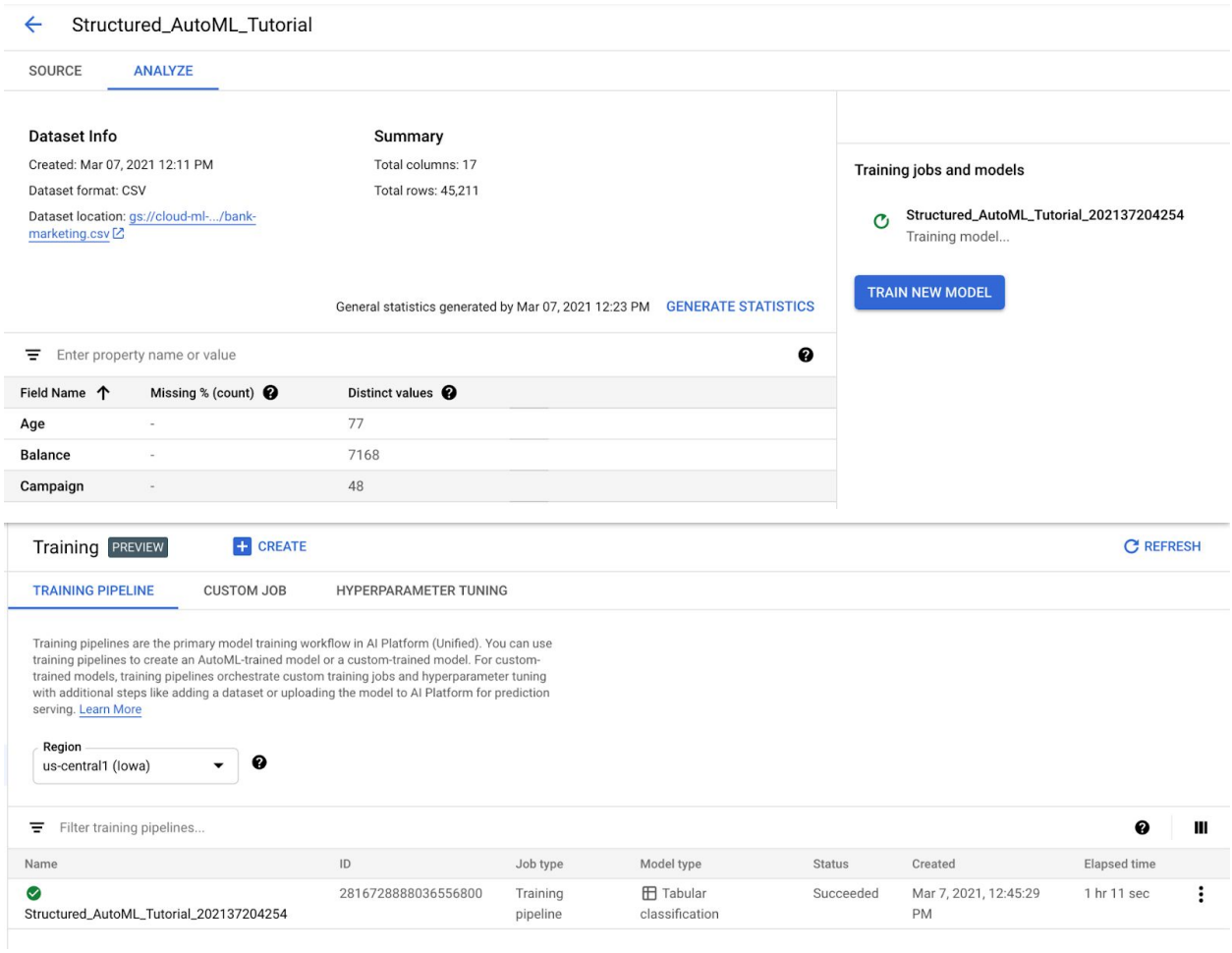


2. Train new model

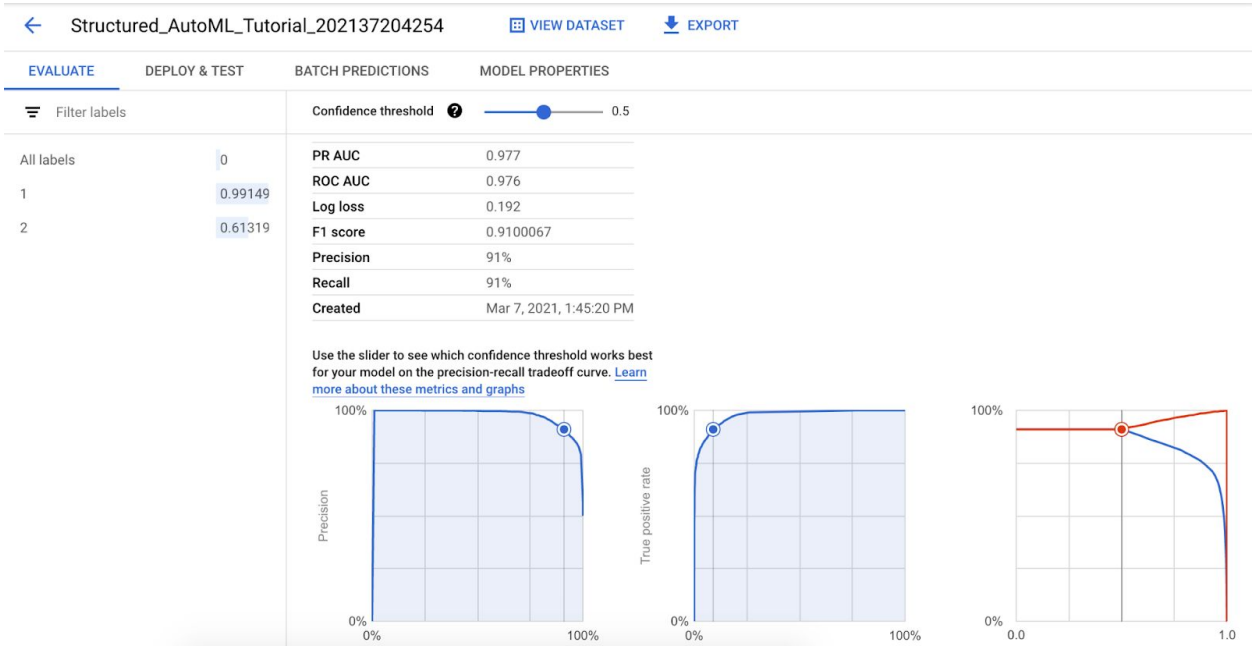
Select Deposit for the target column, and Classification for the objective.

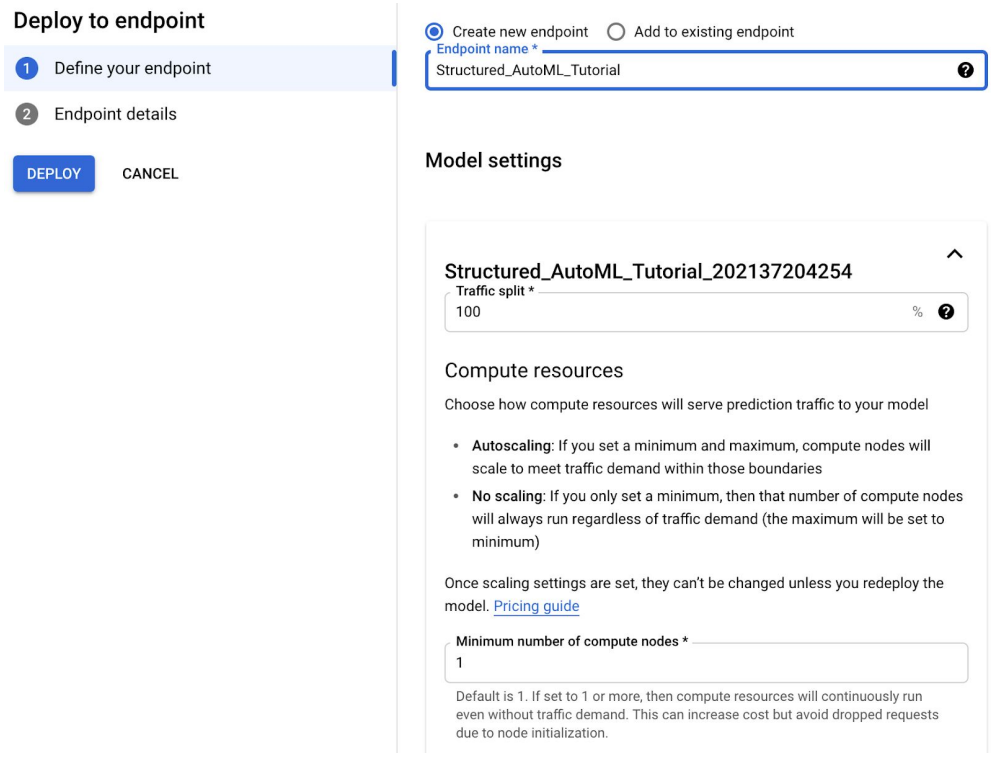


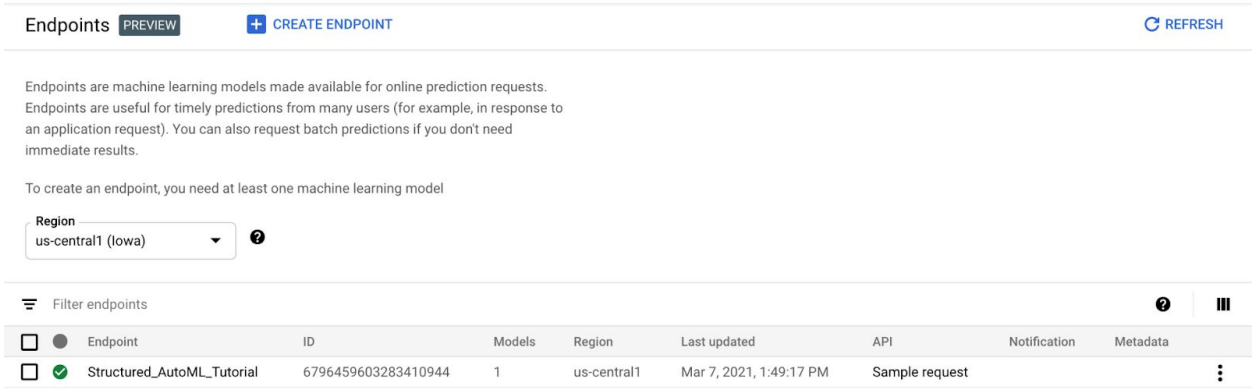




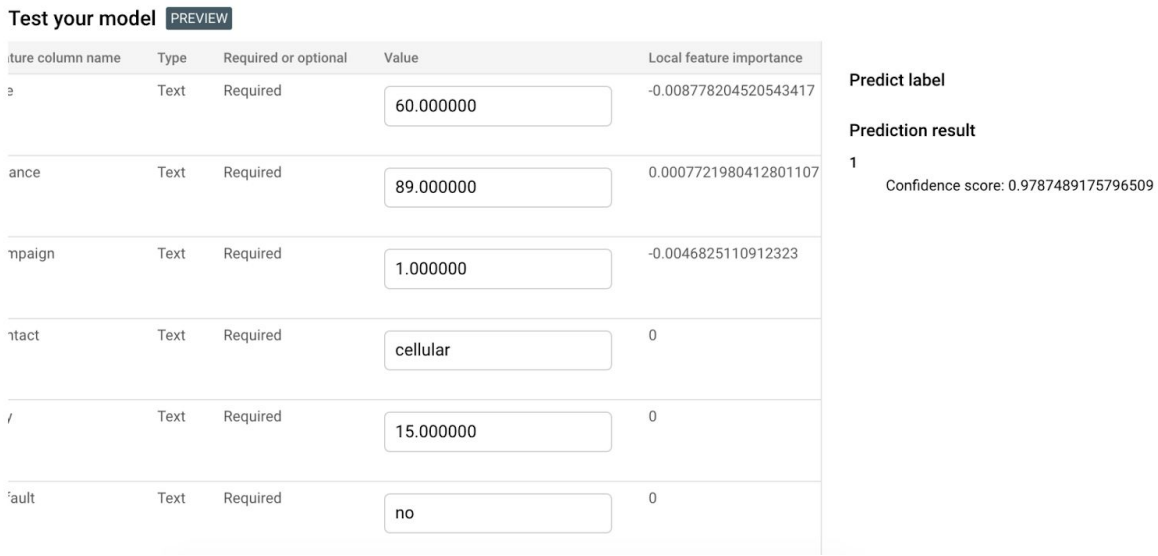
3. Deploy and test


Structured_AutoML_Tutorial_202137204254
VIEW DATASET
EXPORT
EVALUATE
DEPLOY & TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Filter labels
Confidence threshold
0.5
All labels 0
1 0.99149
2 0.61319
PR AUC 0.977
ROC AUC 0.976
Log loss 0.192
F1 score 0.9100067
Precision 91%
Recall 91%
Created Mar 7, 2021, 1:45:20 PM
Use the slider to see which confidence threshold works best for your model on the precision-recall tradeoff curve. Learn more about these metrics and graphs
Precision
True positive rate
100%
0%
0.0
1.0


Deploy to endpoint
1 Define your endpoint
2 Endpoint details
DEPLOY
CANCEL
Create new endpoint
Add to existing endpoint
Endpoint name *
Structured_AutoML_Tutorial
Model settings
Structured_AutoML_Tutorial_202137204254
Traffic split *
100
%
Compute resources
Choose how compute resources will serve prediction traffic to your model
Autoscaling: If you set a minimum and maximum, compute nodes will scale to meet traffic demand within those boundaries
No scaling: If you only set a minimum, then that number of compute nodes will always run regardless of traffic demand (the maximum will be set to minimum)
Once scaling settings are set, they can't be changed unless you redeploy the model. Pricing guide
Minimum number of compute nodes *
1
Default is 1. If set to 1 or more, then compute resources will continuously run even without traffic demand. This can increase cost but avoid dropped requests due to node initialization.



4. Predict



For this model, a prediction result of 1 represents a negative outcome—a deposit is not made at the bank. A prediction result of 2 represents a positive outcome—a deposit is made at the bank.

5. Cleanup

Undeploy model and remove endpoint, then delete model and dataset