

Assignment 2

Rohan Kumar

March 10, 2021

SJSU – CMPE258

AutoML Image – Flowers

Google Cloud Platform

cmpe-258

Search products and resources

5

AI Platform (Unified)

Dashboard

Datasets

Labeling tasks

Notebooks

Training

Models

Endpoints

Batch predictions

← automl-icn-dataset1

automl-icn-dataset1_icn

?

IMPORT

BROWSE

ANALYZE

All3,667

Labeled3,667

Unlabeled0

Filter

Filter labels

+

daisy633

dandelion898

roses640

sunflowers697

tulips799

ADD NEW LABEL

Filter


Filter items

Unable to import data due to errors.


DETAILS

DISMISS


Select all




roses




daisy




tulips




daisy




sunflowers




dandelion




roses



sunflowers



roses



daisy

Items per page: 10

1 – 10 of many

<

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Training jobs and models

automl-icn-dataset1_202131019435

Model type: Image classification

Resume Training

TRAIN NEW MODEL

Labeling tasks

If your data still needs to be labeled, create a labeling task to have others label it for you

CREATE LABELING TASK

Google Cloud Platform

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Search products and resources

AI Platform (Unified)

automl-icn-dataset1

automl-icn-dataset1_icn

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IMPORT

BROWSE

ANALYZE

You're ready to train

Your dataset meets the recommendation of 100 images assigned to each label. [Learn more](#)

Labels	Images
daisy	633
dandelion	898
roses	640
sunflowers	697
tulips	799

Custom data split

You currently don't have any items assigned to Training, Validation, or Test sets. Don't worry, when you train a model, your items will be randomly divided into these sets, using recommended machine learning practices. [Learn more](#)

Properties

Annotation set	automl-icn-dataset1_icn
Objective	Image classification (Single-label)
Items	3667
Created	Mar 10, 2021, 10:43:57 AM
Last updated	Mar 10, 2021, 10:59:00 AM
Region	us-central1
Encryption type	Google-managed key

Training jobs and models

automl-icn-dataset1_202131019435

Model type: Image classification

Resume Training

TRAIN NEW MODEL

Labeling tasks

If your data still needs to be labeled, create a labeling task to have others label it for you

CREATE LABELING TASK

← automl-icn-dataset1_202131019435

VIEW DATASET

EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

Filter Filter labels

All labels0

dandelion1

daisy0.99950

sunflowers0.99772

tulips0.98957

roses0.98639

Confidence threshold 0.5

All labels

Average precision	0.994
Precision	95.9%
Recall	95.9%
Created	Mar 10, 2021, 11:35:44 AM
Total images	3,667
Training images	2,933
Validation images	367
Test images	367

Use the slider to see which score threshold works best for your model on the precision-recall tradeoff curve. [Learn more about these metrics and graphs](#)

Precision-Recall Curve

Precision vs Recall

Precision-Recall Curve

Precision vs Confidence threshold

Confusion matrix

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.

True label	Predicted label	roses	sunflowers	tulips	dandelion	daisy
roses	98%	—	2%	—	—	—
sunflowers	3%	93%	3%	1%	—	—
tulips	8%	—	93%	—	—	—
dandelion	—	—	—	100%	—	—
daisy	—	—	—	5%	95%	—

AI Platform (Unified)

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← automl-icn-dataset1_202131019435

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VIEW DATASET

EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

📘

This model finished training on Mar 10, 2021, 11:36:01 AM.

Status	Succeeded
Model ID	4220875605450686464
Training pipeline ID	7810517187348660224
Created	Mar 10, 2021, 11:06:36 AM
Budget (original)	8 node hours
Budget (actual)	8 node hours
Training time	29 min 24 sec
Region	us-central1
Encryption type	Google-managed key

Dataset	automl-icn-dataset1
Dataset ID	5298150710066544640
Annotation set	automl-icn-dataset1_icn
Data split	Randomly assigned (80/10/10)
Total items	3,667
Training items	2,933 (80.0%)
Validation items	367 (10.0%)
Test items	367 (10.0%)

Algorithm	AutoML
Objective	Image classification (Single-label)

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EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

Deploy your model


Endpoints are machine learning models made available for online prediction requests. Endpoints are useful for timely predictions from many users (for example, in response to an application request). You can also request batch predictions if you don't need immediate results.

DEPLOY TO ENDPOINT

	Name	ID	Models	Region	Last updated	API	Notification	Metadata	Encryption
✓	hello_automl_image	7887456613013913600	1	us-central1	Mar 10, 2021, 11:56:07 AM	Sample request			Google-managed key

Test your model

PREVIEW



Item 1 of many

Filter

Filter labels

roses

0.000

sunflowers

1.000

tulips

0.000

dandelion

0.000

daisy

0.000

UPLOAD IMAGE

- Dashboard
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Deploy your model

Endpoints are machine learning models made available for online prediction requests. Endpoints are useful for timely predictions from many users (for example, in response to an application request). You can also request batch predictions if you don't need immediate results.

DEPLOY TO ENDPOINT

	Name	ID	Models	Region	Last updated	API	Notification	Metadata	Encryption
✓	hello_automl_image	7887456613013913600	1	us-central1	Mar 10, 2021, 11:56:07 AM	Sample request			Google-managed key

Test your model

PREVIEW

Item 1 of many

Filter Filter labels

roses

0.000

sunflowers

0.000

tulips

0.000

dandelion

1.000

daisy

0.000

UPLOAD IMAGE

AutoML Text – Drug Reviews

Google Cloud Platform

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Search products and resources

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AI Platform (Unified)

drug_review_dataset

drug_review_dataset_tcn

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IMPORT

BROWSE

ANALYZE

All4,940

Labeled4,940

Unlabeled0

Filter

Filter labels

+

1654

101,609

2218

3199

4165

5245

6206

7276

8547

9821

ADD NEW LABEL

Filter

Filter items

Text

Labels

Have been on a lot of different antidepressants for anxiety. Most meds made m...

8

I have been taking Levora for a year and a half. For the first year, maybe a little l...

7

I have been on birth control for over 16 years now. I started with pills at 18 then ...

3

Simply the best. Doesn't build up in the body, works quickly. Unfortunatel...

10

I get reoccurring Bacterial Vaginitis. This medication is the only one that works. ...

10

This week I started off on of 5 mg and then went up to 10mg. I've been d...

5

I just wanted to start taking this BC because I have a bf. But this pill is giving me...

1

I dislocated my shoulder. The ER doctor gave me this and when I came to a few ...

10

Had my left eye destroyed by a broomstick in a fight. Doctor gave me percocet! ...

10

I should be in a medical Journal compared to some of the other triglyceride leve...

9

Items per page:

10

1 – 10 of many

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Training jobs and models

drug_review_dataset_20213102158

Model type: Text classification

TRAIN NEW MODEL

Labeling tasks

If your data still needs to be labeled, create a labeling task to have others label it for you

CREATE LABELING TASK

You're ready to train

Your dataset meets the recommendation of 100 text items assigned to each label. [Learn more](#)

Labels ↑	Text items
1	654
10	1609
2	218
3	199
4	165
5	245
6	206
7	276
8	547
9	821

☐ Custom data split

You currently don't have any items assigned to Training, Validation, or Test sets. Don't worry, when you train a model, your items will be randomly divided into these sets, using recommended machine learning practices. [Learn more](#)

Properties

Annotation set	drug_review_dataset_tcn
Objective	Text classification (Single-label)
Items	4940
Created	Mar 10, 2021, 12:44:00 PM
Last updated	Mar 10, 2021, 12:55:02 PM
Region	us-central1
Encryption type	Google-managed key

Training jobs and models

drug_review_dataset_20213102158
Model type: Text classification

TRAIN NEW MODEL

Labeling tasks

If your data still needs to be labeled, create a labeling task to have others label it for you

CREATE LABELING TASK

AI Platform (Unified)

drug_review_dataset_20213102158

VIEW DATASET

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EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

Filter

Filter labels

All labels

0

10

1

9

8

2

7

3

5

4

6

0.70616

0.63091

0.31950

0.28815

0.21884

0.20017

0.17719

0.16594

0.16440

0.13177

Confidence threshold

0.5

All labels

Average precision

0.477

Precision

66.9%

Recall

24.6%

Created

Mar 10, 2021, 5:14:21 PM

Total items

4,940

Training items

3,951

Validation items

497

Test items

492

Use the slider to see which score threshold works best for your model on the precision-recall tradeoff curve. [Learn more about these metrics and graphs](#)

Precision

100%

0%

0%

100%

Recall

Precision

100%

0%

0.0

1.0

Confidence threshold

Recall@1

Precision@1

Confusion matrix

Item counts

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.

True label

Predicted label

7

3

1

9

5

8

4

2

10

6

7

0%

—

4%

30%

4%

33%

—

—

30%

—

3

—

0%

60%

5%

15%

—

—

—

15%

5%

1

—

—

80%

2%

3%

—

—

—

15%

—

9

1%

—

1%

11%

5%

9%

—

—

73%

—

5

4%

4%

25%

8%

17%

8%

4%

—

29%

—

8

2%

—

7%

24%

4%

20%

2%

—

40%

2%

4

—

—

38%

13%

13%

13%

6%

—

19%

—

2

—

5%

59%

18%

5%

—

—

0%

14%

—

10

—

—

7%

4%

1%

2%

—

—

85%

—

6

—

—

30%

10%

5%

20%

5%

—

30%

0%

<1

- AI Platform (Unified)
- Dashboard

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Batch predictions

← drug_review_dataset_20213102158

VIEW DATASET

EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

This model finished training on Mar 10, 2021, 5:14:39 PM.

Status	Succeeded
Model ID	7315974449361059840
Training pipeline ID	2987161986434859008
Created	Mar 10, 2021, 1:05:14 PM
Training time	4 hr 9 min
Region	us-central1
Encryption type	Google-managed key

Dataset	drug_review_dataset
Dataset ID	1720040806120685568
Annotation set	drug_review_dataset_tcn
Data split	Randomly assigned (80/10/10)
Total items	4,940
Training items	3,951 (80.0%)
Validation items	497 (10.1%)
Test items	492 (10.0%)

Algorithm	AutoML
Objective	Text classification (Single-label)

- 🌿 AI Platform (Unified)
- 🏠

Dashboard
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- 👉

Labeling tasks
- 📄

Notebooks
- ☰

Training
- 💡

Models
- 🔗

Endpoints
- 🔔

Batch predictions

← drug_review_dataset_20213102158

📄

VIEW DATASET

EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

Deploy your model

Endpoints are machine learning models made available for online prediction requests. Endpoints are useful for timely predictions from many users (for example, in response to an application request). You can also request batch predictions if you don't need immediate results.

DEPLOY TO ENDPOINT

●	Name	ID	Models	Region	Last updated	API	Notification	Metadata	Encryption
✓	drug_review_endpoint	419362530926788608	1	us-central1	Mar 10, 2021, 5:57:39 PM	Sample request			Google-managed key

Test your model

PREVIEW

gave me bad gas

PREDICT

☰ Filter

Filter labels

10

0.005

9

0.006

1

0.492

8

0.009

7

0.016

5

0.056

2

0.133

6

0.037

3

0.144

4

0.102

- AI Platform (Unified)
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← drug_review_dataset_20213102158

VIEW DATASET

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MODEL PROPERTIES

Deploy your model

Endpoints are machine learning models made available for online prediction requests. Endpoints are useful for timely predictions from many users (for example, in response to an application request). You can also request batch predictions if you don't need immediate results.

DEPLOY TO ENDPOINT

	Name	ID	Models	Region	Last updated	API	Notification	Metadata	Encryption	
✓	drug_review_endpoint	419362530926788608	1	us-central1	Mar 10, 2021, 5:57:39 PM	Sample request			Google-managed key	⋮

Test your model

PREVIEW

solved my pain

PREDICT

Filter

Filter labels

10		0.712
9		0.195
1		0.001
8		0.071
7		0.012
5		0.002
2		0.001
6		0.005
3		0.001
4		0.001

AutoML Video – Activities

AI Platform (Unified)

demo-data

demo-data_vcn

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Batch predictions

IMPORT

BROWSE

ANALYZE

All500

Labeled500

Unlabeled0

Filter

Filter labels

+

Videos

cartwheel100

golf100

kick_ball100

pullup100


ride_horse100


ADD NEW LABEL


Filter


Filter items


Select all


kick_ball


pullup


golf


golf


ride_horse

pullup

cartwheel

cartwheel

cartwheel

kick_ball

Training jobs and models

demo-data_2021_03_07_model

Model type: Video classification

TRAIN NEW MODEL

Labeling tasks

If your data still needs to be labeled, create a labeling task to have others label it for you

CREATE LABELING TASK

Items per page: 10

1 – 10 of many

demo-data_2021_03_07_model

VIEW DATASET

EVALUATE

TEST

BATCH PREDICTIONS

MODEL PROPERTIES

Filter

Filter labels

All labels0

golf1

pullup1

cartwheel1

ride_horse1

kick_ball1

Confidence threshold

0.5

All labels

Average precision	1
Precision	100%
Recall	100%
Created	Mar 7, 2021, 7:24:55 PM
Training videos	400
Test videos	100

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

100%

0%

0%

100%

Recall

Precision

100%

0%

0.0

1.0

Confidence threshold

Recall

Precision

Confusion matrix

Item counts

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.

True label	Predicted label	pullup	kick_ball	cartwheel	ride_horse	golf
pullup	100%	—	—	—	—	—
kick_ball	—	100%	—	—	—	—
cartwheel	—	—	100%	—	—	—
ride_horse	—	—	—	100%	—	—
golf	—	—	—	—	—	100%

Google Cloud Platform

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Search products and resources

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AI Platform (Unified)

demo-data_2021_03_07_batch-prediction

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Model

Objective

Import location

Total items

Predicted items

Created

Updated

Elapsed time

Status

Export location

demo-data_2021_03_07_model

Video classification

gs://automl-video-demo-data/hmdb_split1_predict.jsonl

5

5

Mar 07, 2021 at 07:42PM

Mar 07, 2021 at 07:44PM

1 min 25 sec

Completed without errors

gs://cloud-ai-platform-183b1ee7-2b41-4278-8cfb-7b56f47dc88b/predicted-results/prediction-demo-data_2021_03_07_model-2021-03-08T03:42:37.073827Z

VIEW RESULTS

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🌿 AI Platform (Unified)

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← gs://automl-video-demo-data/hmdb51/35_pull_ups_pullup_f_nm_np1_fr_goo_1.mp4 [0-2.633333] ▾



Confidence threshold 0.80 Predict on: SHOT SEGMENT INTERVAL



Filter Filter labels

▼ pullup (1)
0:00:00.00-0:00:02.62 0.967

🌿 AI Platform (Unified)

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← gs://automl-video-demo-data/hmdb51/CrossCountry_ride_horse_f_cm_np1_le_med_2.mp4 [0-2.366667] ▾



Confidence threshold 0.80 Predict on: SHOT SEGMENT INTERVAL



Filter Filter labels

▼ ride_horse (1)
0:00:00.00-0:00:02.35 0.968

🌿 AI Platform (Unified)

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← gs://automl-video-demo-data/hmdb51/How_to_Shoot_Penalty_Kicks_kick_ball_f_cm_np1_ba_bad_4.mp4 [0-1.366667] ▾



Confidence threshold 0.80 Predict on: SHOT SEGMENT INTERVAL



Filter Filter labels

▼ ■ kick_ball (1)
0:00:00.00-0:00:01.36 ▬ 0.962

Google Cloud Platform

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Search products and resources

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AI Platform (Unified)

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gs://automl-video-demo-data/hmdb51/how_to_do_a_cartwheel_cartwheel_f_cm_np1_ri_med_0.mp4 [0-3]

00:00 / 0:00:00



▶ < >

00:00 / 0:00:00

Confidence threshold

0.80

Predict on:

SHOT

SEGMENT

INTERVAL

00:00.0

00:0.5

00:01

00:1.5

00:02

00:2.5

00:03

cartwheel 0.967

golf

kick_ball

pullup

ride_horse

Filter

Filter labels

▼

cartwheel (1)

0:00:00.00-0:00:03.00

0.967

<|

AI Platform (Unified)

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gs://automl-video-demo-data/hmdb51/Michelle_Wie__Golf_Swing_golf_f_cm_np1_fr_med_0.mp4 [0-2.633333]



Confidence threshold 0.80 Predict on: SHOT SEGMENT INTERVAL



Filter Filter labels

golf (1)

0:00:00.00-0:00:02.62 0.968

AutoML Tabular – Bank Marketing

- Dashboard
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SOURCE

ANALYZE

Dataset Info

Created: Mar 10, 2021 7:42 PM

Dataset format: CSV

Dataset location: [gs://cloud-ml-.../bank-marketing.csv](#)

Summary

Total columns: 17

Total rows: 45,211

General statistics generated by Mar 10, 2021 7:53 PM

GENERATE STATISTICS

Filter

Enter property name or value

Field Name	Missing % (count)	Distinct values
Age	-	77
Balance	-	7168
Campaign	-	48
Contact	-	3
Day	-	31
Default	-	2
Deposit	-	2
Duration	-	1573
Education	-	4
Housing	-	2
Job	-	12
Loan	-	2
MaritalStatus	-	3
Month	-	12
PDays	-	559
POutcome	-	4
Previous	-	41

Training jobs and models

Structured_AutoML_Tutorial_202131135058

Model type: Tabular

TRAIN NEW MODEL

Google Cloud Platform

cmpe-258

Search products and resources

AI Platform (Unified)

Structured_AutoML_Tutorial_202131135058

VIEW DATASETEXPORT

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EVALUATE

DEPLOY & TEST

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MODEL PROPERTIES

Filter Filter labels

All labels

0

1

0.99093

2

0.59817

Confidence threshold 0.5

All labels

PR AUC	0.977
ROC AUC	0.975
Log loss	0.196
F1 score	0.9082158
Precision	90.8%
Recall	90.8%
Created	Mar 10, 2021, 8:49:26 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-Recall

ROC

Precision-Recall

Confusion matrix

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.

True label	Predicted label	
	1	2
1	97%	3%
2	53%	47%

Feature Importance

Feature	Importance
Duration	0.35
Month	0.20
Contact	0.08
Housing	0.08
Day	0.07
Campaign	0.05
Job	0.04
POutcome	0.04
Balance	0.04
Age	0.03
Education	0.03
MaritalStatus	0.02
PDays	0.01
Loan	0.01
Previous	0.01
Default	0.01

← Structured_AutoML_Tutorial_202131135058

📊 VIEW DATASET

📄 EXPORT

EVALUATE

DEPLOY & TEST

BATCH PREDICTIONS

MODEL PROPERTIES

📘 This model finished training on Mar 10, 2021, 8:49:46 PM.

Status	Succeeded
Model ID	2389036457017737216
Training pipeline ID	1444679114060464128
Created	Mar 10, 2021, 7:52:11 PM
Budget (original)	1 node hours
Training time	57 min 34 sec
Region	us-central1
Encryption type	Google-managed key
Dataset	Structured_AutoML_Tutorial
Dataset ID	3073372494145519616
Target column	Deposit
Data split	Randomly assigned (80/10/10)
Model hyperparameters	Model Trials
Transformation options	View details
Algorithm	AutoML
Objective	Tabular classification
Optimized for	Log loss

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Use your edge-optimized model

Container

Export your model as a TF Saved Model to run on a Docker container.

Deploy your model

Endpoints are machine learning models made available for online prediction requests. Endpoints are useful for timely predictions from many users (for example, in response to an application request). You can also request batch predictions if you dont need immediate results.

DEPLOY TO ENDPOINT

	Name	ID	Models	Region	Last updated	API	Notification	Metadata	Encryption
	tabular_endpoint	5064825546559455232	1	us-central1	Mar 10, 2021, 9:46:12 PM	Sample request			Google-managed key

Test your model

Feature column name	Type	Required or optional	Value	Local feature importance
Age	Text	Required	<input type="text" value="28"/>	-0.004177351792653401
Balance	Text	Required	<input type="text" value="447"/>	0.0003493676582972209
Campaign	Text	Required	<input type="text" value="1"/>	-0.001564875245094299
Contact	Text	Required	<input type="text" value="unknown"/>	0.01655279099941254
Day	Text	Required	<input type="text" value="5"/>	0.0006326834360758463
Default	Text	Required	<input type="text" value="no"/>	0
Duration	Text	Required	<input type="text" value="217"/>	-0.004475787281990051
Education	Text	Required	<input type="text" value="tertiary"/>	-0.00149327019850413
Housing	Text	Required	<input type="text" value="yes"/>	0
Job	Text	Required	<input type="text" value="management"/>	-0.003106375535329183

Predict label

Prediction result

1

Confidence score: 0.9973734617233276

AutoML Vision Edge – Mobile

Vision

Dashboard

Datasets

Models

Flowers

Label Stats

Export Data

Import

Images

Train

Evaluate

Test & Use

Single-Label Classification

All images1,000

Labeled1,000

Unlabeled0

Filter labels

+

daisy200

dandelion200

roses200

sunflowers200


tulips200

ADD NEW LABEL


Filter

Filter images


Select all




tulips(1)




daisy(1)




dandelion(1)




roses(1)




daisy(1)




dandelion(1)




sunflowers(1)




dandelion(1)




tulips(1)




tulips(1)




daisy(1)




daisy(1)




tulips(1)




roses(1)




dandelion(1)




sunflowers(1)




sunflowers(1)




sunflowers(1)




daisy(1)




daisy(1)




sunflowers(1)



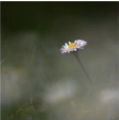
roses(1)




daisy(1)




daisy(1)




daisy(1)




tulips(1)




roses(1)




sunflowers(1)




roses(1)




tulips(1)




roses(1)




daisy(1)




roses(1)




tulips(1)




daisy(1)




sunflowers(1)




dandelion(1)




dandelion(1)




roses(1)




dandelion(1)




sunflowers(1)




tulips(1)




daisy(1)




tulips(1)




sunflowers(1)




roses(1)




tulips(1)



tulips(1)



daisy(1)



daisy(1)

Images per page: 501 - 50 of many

Vision

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LABEL STATS

EXPORT DATA

IMPORTIMAGESTRAINEVALUATETEST & USE

Model
Flowers_20210310064318

Confidence threshold0.5

Filter labels

All labels0.98009

daisy0.98371

dandelion0.99545

roses0.97901

sunflowers1

tulips0.95694

All labels

Total images900

Test items100

Precision96.7%

Recall88%

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.](#)

Confusion matrix

This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.

True Label	Predicted Label	dandelion	tulips	sunflowers	daisy	roses
dandelion	95%	-	-	5%	-	-
tulips	-	90%	-	5%	5%	-
sunflowers	-	-	100%	-	-	-
daisy	-	-	5%	95%	-	-
roses	-	10%	-	5%	85%	-

Single-Label Classification

Precision

0%100%

0%100%

Recall

Precision

0%100%

0.01.0

Confidence

RecallPrecision



NEXT IMAGE

Source: Local model
Latency: 419ms
Label: sunflowers, Confidence: 0.88