Computer Vision Fundamentals with Google Cloud

Professional Machine Learning Engineer Certification Learning Path navigate_next Computer Vision Fundamentals with Google Cloud navigate_next Vertex AI and AutoML Vision on Vertex AI

Identifying Damaged Car Parts with Vertex AI for AutoML Vision Users

1 hour 30 minutes Free

Overview

Vertex AI brings together the Google Cloud services for building machine learning (ML) models under one/unified user interface (UI) and Application Programming Interface (API). In Vertex AI, you can now easily train and compare models using AutoML or custom code training and all your models are stored in one central model repository. These models can now be deployed to the same endpoints on Vertex AI.

AutoML Vision helps anyone with limited ML expertise train high quality image classification models. In this hands-on lab, you learn how to produce a custom ML model that automatically recognizes damaged car parts.

Once you've produced your ML model, it'll be immediately available for use. You can use the UI or the REST API to start generating predictions directly from the Google Cloud Console.

Lab objectives

In this lab, you learn how to perform the following tasks:

- Upload a labeled dataset to Cloud Storage using a CSV file and connect it to Vertex AI as a Managed Dataset.
- Inspect uploaded images to ensure there are no errors in your dataset.
- Review your trained model and evaluate its accuracy.

Task 0. Setup and requirements

Before you click the Start Lab button

Read these instructions. Labs are timed and you cannot pause them. The timer, which starts when you click **Start Lab**, shows how long Google Cloud resources will be made available to you.

This hands-on lab lets you do the lab activities yourself in a real cloud environment, not in a simulation or demo environment. It does so by giving you new, temporary credentials that you use to sign in and access Google Cloud for the duration of the lab.

What you need

To complete this lab, you need:

- Access to a standard internet browser (Chrome browser recommended).
- Time to complete the lab.

Note: If you have a personal Google Cloud account or project, do not use it for this lab. **Note:** If you are using a Pixelbook, open an Incognito window to run this lab.

Log in to Google Cloud Console

1. Using the browser tab or window you are using for this lab session, copy the **Username** from the **Connection Details** panel and click the **Open Google Console** button.

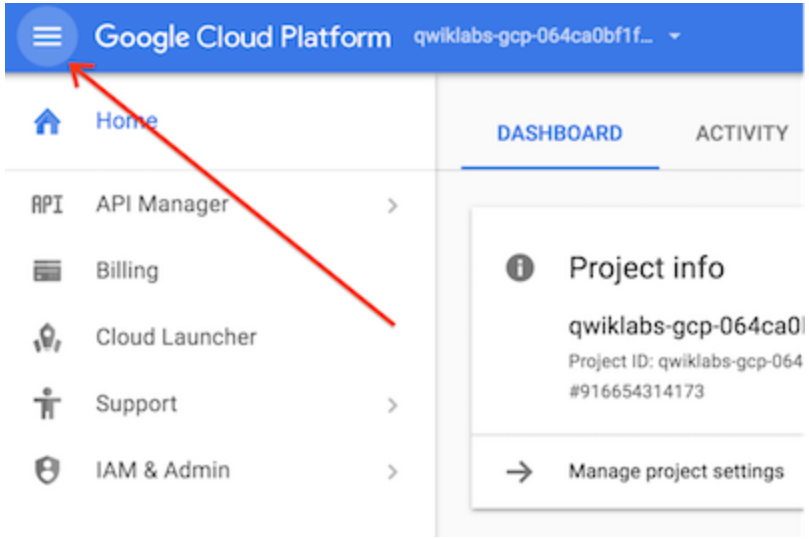
Note: If you are asked to choose an account, click **Use another account**.

2. Paste in the **Username**, and then the **Password** as prompted.
3. Click **Next**.
4. Accept the terms and conditions.

Since this is a temporary account, which will last only as long as this lab:

- Do not add recovery options
- Do not sign up for free trials

5. Once the console opens, view the list of services by clicking the **Navigation menu** (☰) at the top-left.



Activate Cloud Shell

Cloud Shell is a virtual machine that contains development tools. It offers a persistent 5-GB home directory and runs on Google Cloud. Cloud Shell provides command-line access to your Google Cloud resources. `gcloud` is the command-line tool for Google Cloud. It comes pre-installed on Cloud Shell and supports tab completion.

1. Click the **Activate Cloud Shell** button ( ) at the top right of the console.
2. Click **Continue**.
   It takes a few moments to provision and connect to the environment. When you are connected, you are also authenticated, and the project is set to your *PROJECT_ID*.

Sample commands

- List the active account name:

gcloud auth list

(Output)

Credentialed accounts: - <myaccount>@<mydomain>.com (active)

(Example output)

Credentialed accounts: - google1623327_student@qwiklabs.net

- List the project ID:

gcloud config list project

(Output)

[core] project = <project_ID>

(Example output)

[core] project = qwiklabs-gcp-44xxxxxxxx6 **Note:** Full documentation of **gcloud** is available in the gcloud CLI overview guide.

Task 1. Upload training images to Cloud Storage

In this task, you upload the training images you want to use to Cloud Storage. This makes it easier to import the data into Vertex AI later.

To train a model to classify images of damaged car parts, you need to provide the machine with labeled training data. The model use the data to develop an understanding of each image and differentiate between car parts and those with damages on them.

For the purposes of this lab, you won't need to label images because a labeled dataset (i.e. image plus label) in a CSV file has been provided. The next section outlines the steps to use the CSV file.

In this example, your model learn to classify five different damaged car parts: **bumper**, **engine compartment**, **hood**, **lateral**, and **windshield**.

Create a Cloud Storage bucket

1. To start, use Cloud Shell window and execute the following commands to set some environment variables:

export PROJECT_ID=$DEVSHELL_PROJECT_ID export BUCKET=$PROJECT_ID

2. Next, to create a Cloud Storage bucket, execute the following command:

gsutil mb -p $PROJECT_ID \ -c standard \ -l us-central1 \ gs://${BUCKET}

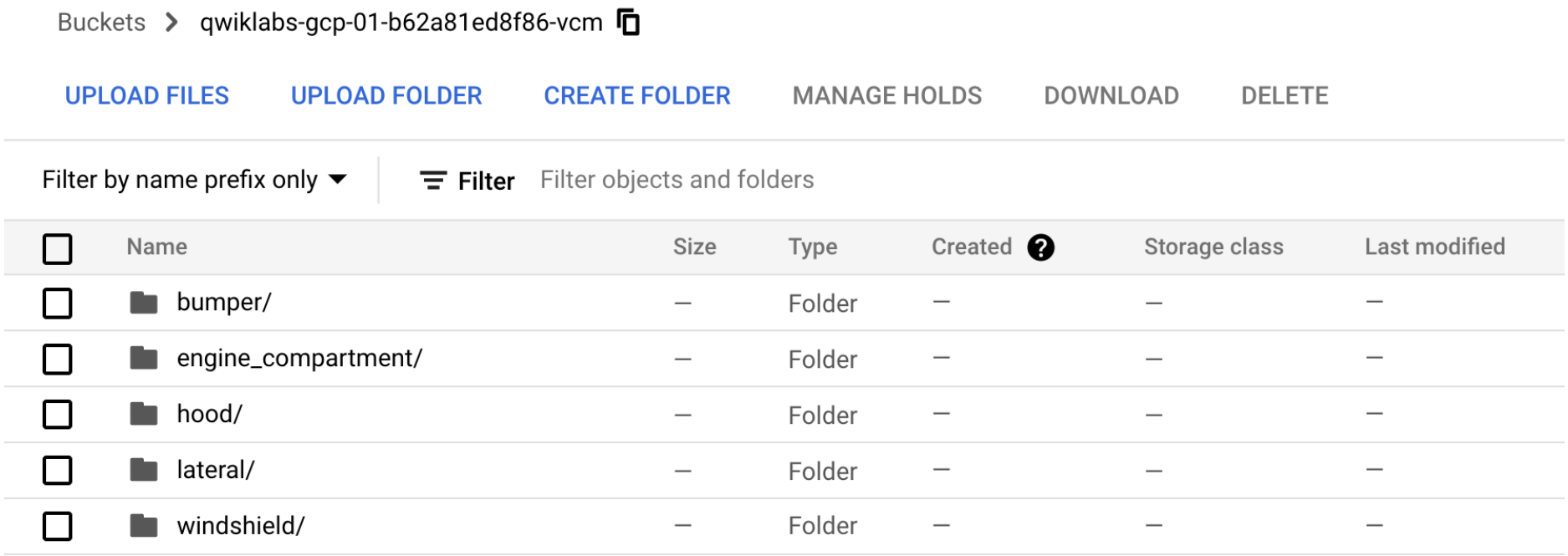
Upload car images to your Storage Bucket

The training images are publicly available in a Cloud Storage bucket. Again, copy and paste the script template below into Cloud Shell to copy the images into your own bucket.

1. To copy images into your Cloud Storage bucket, execute the following command:

```
gsutil -m cp -r gs://car_damage_lab_images/* gs://${BUCKET}
```

2. In the navigation pane, click **Cloud Storage** > **Buckets**.
3. Click the **Refresh** button at the top of the Cloud Storage browser.
4. Click on your bucket name. You should see five folders of photos for each of the five different damaged car parts to be classified:



5. Optionally, you can click one of the folders and check out the images inside.

Great! Your car images are now organized ready to for training.

Click **Check my progress** to verify the objective. Upload car images to your Storage Bucket

Task 2. Create a dataset

In this task, you create a new dataset and connect your dataset to your training images to allow Vertex AI to access them.

Normally, you would create a CSV file where each row contains a URL to a training image and the associated label for that image. In this case, the CSV file has been created for you; you just need to update it with your bucket name and upload the CSV file to your Cloud Storage bucket.

Update the CSV file

Copy and paste the script templates below into Cloud Shell and press enter to update, and upload the CSV file.

1. In Cloud Shell, to create a copy of the file, execute the following command:

```
gsutil cp gs://car_damage_lab_metadata/data.csv .
```

2. To update the CSV with the path to your storage, execute the following command:

```
sed -i -e "s/car_damage_lab_images/${BUCKET}/g" ./data.csv
```

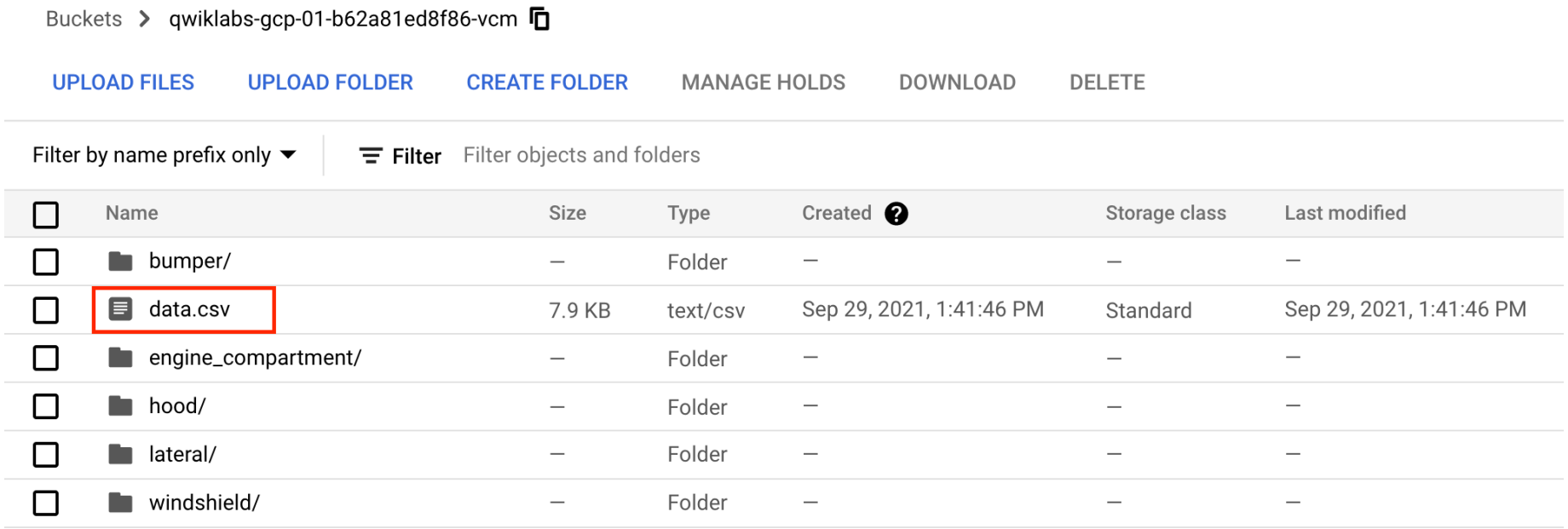
3. Verify your bucket name was inserted into the CSV properly:

```
cat ./data.csv
```

4. To upload the CSV file to your Cloud Storage bucket, execute the following command:

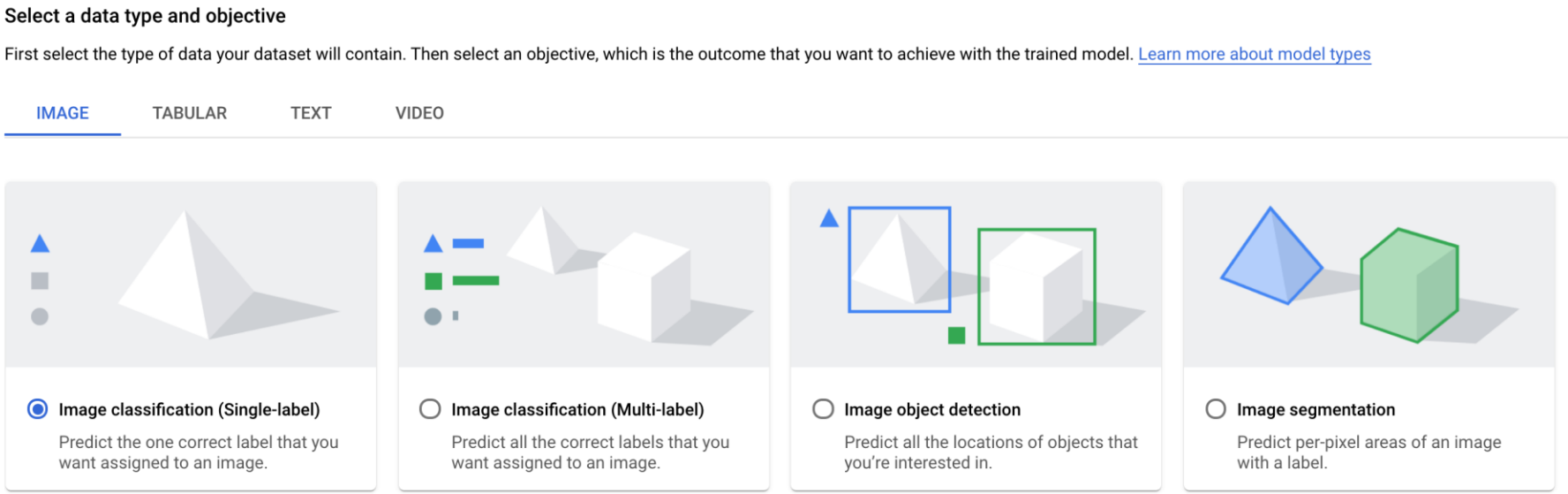
```
gsutil cp ./data.csv gs://${BUCKET}
```

5. Once the command completes, click the **Refresh** button at the top of the Cloud Storage browser and open your bucket.
6. Confirm that the `data.csv` file is listed in your bucket.



Create a managed dataset

1. In the Google Cloud Console, on the **Navigation menu** (≡) click **Vertex AI** > **Dashboard**.
2. Click **Enable all recommended API**.
3. From the Vertex AI navigation menu on the left, click **Datasets**.
4. At the top of the console, click **+ Create**.
5. For Dataset name, type `damaged_car_parts`.
6. Select **Image classification (Single label)**. (Note: in your own projects, you may want to check the "Multi-label Classification" box if you're doing multi-class classification).



7. Leave all other settings as default. Then click **Create**.

Connect your dataset to your training images

In this section, you choose the location of your training images that you uploaded in the previous step.

1. In the **Select an import method** section, click **Select import files from Cloud Storage**.
2. In the **Select import files from Cloud Storage** section, click **Browse**.
3. Follow the prompts to navigate to your storage bucket and click your `data.csv` file. Click **Select**.
4. Once you've properly selected your file, a green checkbox appears to the left of the file path. Click **Continue** to proceed.

Note

It can take around 9 to 12 minutes for your images to import and be aligned with their categories. You need to wait for this step to complete before checking your progress.

5. Once the import has completed, prepare for the next section by clicking the **Browse** tab. *(Hint: You may need to refresh the page to confirm.)*

Click **Check my progress** to verify the objective. Create a dataset

Task 3. Inspect images

In this task, you examine the images to ensure there are no errors in your dataset.

IMPORT BROWSE ANALYZE

All	100
Labeled	100
Unlabeled	0
Training	65
Validation	20
Test	15

Filter Filter labels +

bumper	20
engine_compartment	20
hood	20
lateral	20
windshield	20

ADD NEW LABEL

Filter Filter items

Select all


windshield


bumper


windshield

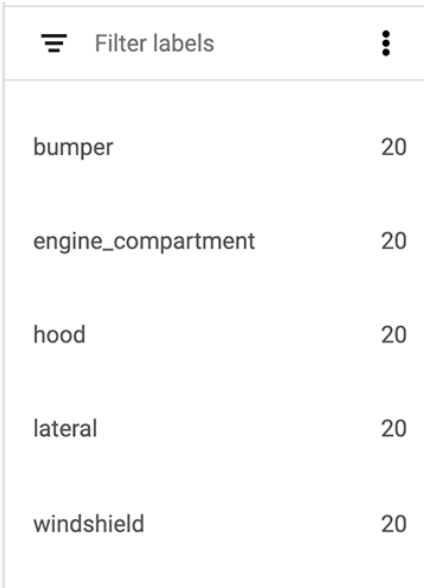

hood


windshield


lateral

Check image labels

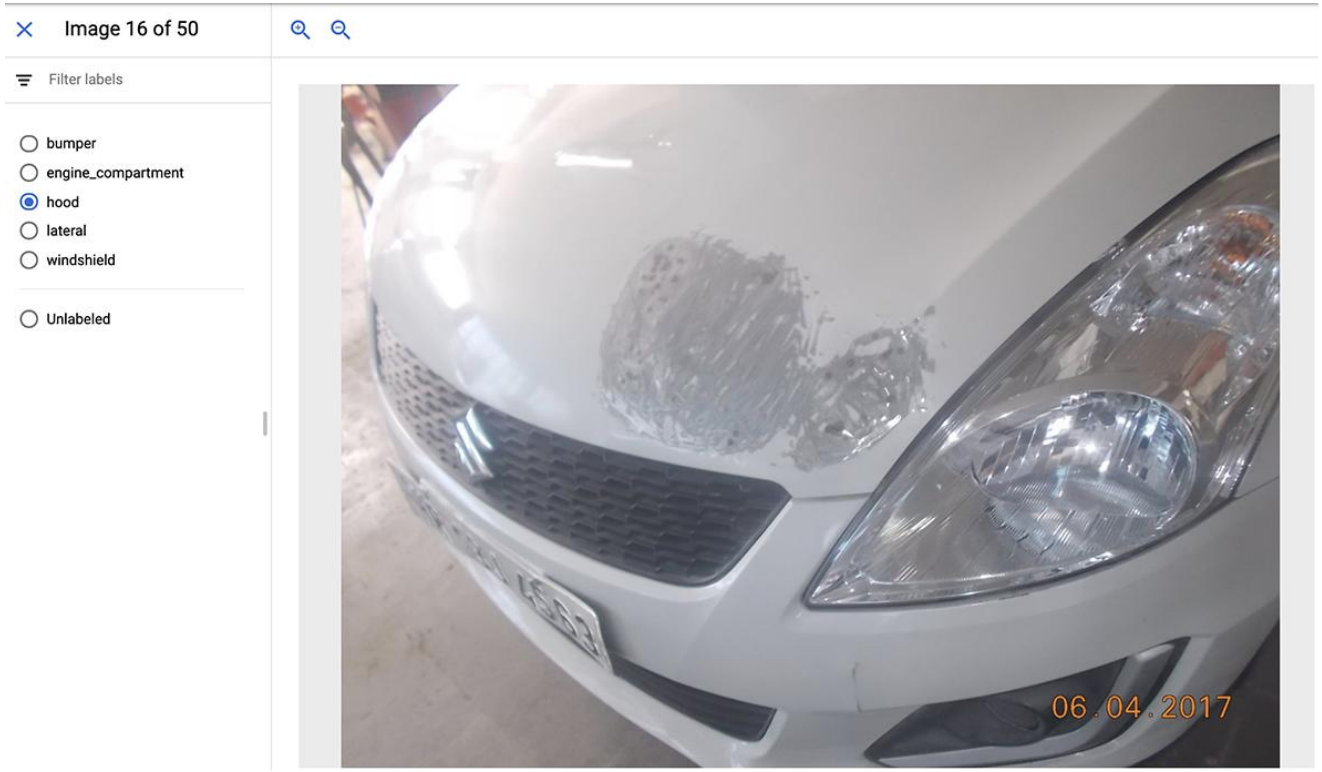
1. If your browser page has refreshed, click **Datasets** , select your dataset name, and then click **Browse**.
2. Under **Filter labels**, click any one of the labels to view the specific training images. *(Example: engine_compartment.)*



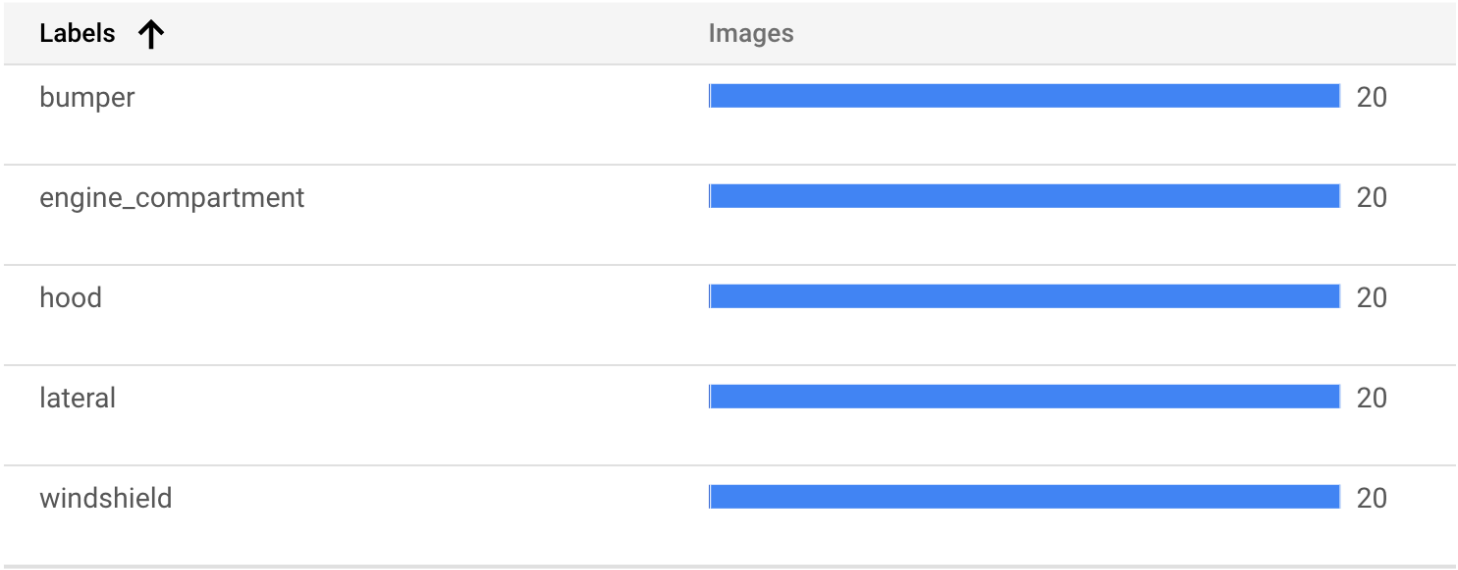
Note

If you were building a production model, you'd want *at least* 100 images per label to ensure high accuracy. This is just a demo so only 20 images of each type were used so the model could train quickly.

3. If an image is labeled incorrectly, you can click on it to select the correct label or delete the image from your training set:



4. Next, click on the **Analyze** tab to view the number of images per label. The **Label Stats** window appears on the right side of your browser.



Note: If you need help labeling your dataset, Vertex AI Data Labeling lets you work with human labelers to generate highly accurate labels.

Task 4. Train your model

You're ready to start training your model! Vertex AI handles this for you automatically, without requiring you to write any of the model code.

1. From the right-hand side, click **Train New Model**.
2. From the **Training method** window, leave the default configurations and select **AutoML** as the training method. Click **Continue**.
3. From the **Model details** window, enter a name for your model, use: `damaged_car_parts_model`. Click **Continue**.
4. From the **Explainability (optional)** window, click **Continue**.
5. From the **Compute and pricing** window, set your budget to **8** maximum node hours.
6. Click **Start Training**.

Note: Model training can take longer than the allotted time to complete the lab. The model does not need to finish training to continue to the next section.

Click **Check my progress** to verify the objective. Train your model

Task 5. Request a prediction from a hosted model

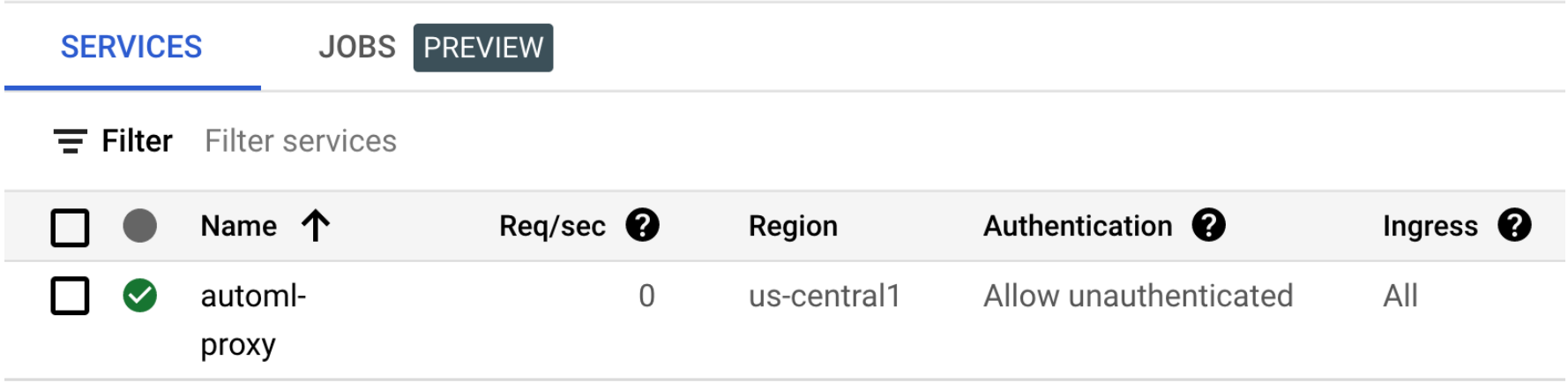
For the purposes of this lab, a model trained on the exact same dataset is hosted in a different project so that you can request predictions from it while your local model finishes training, as it is likely that the local model training will exceed the limit of this lab.

A proxy to the pre-trained model is set up for you so you don't need to run through any extra steps to get it working within your lab environment.

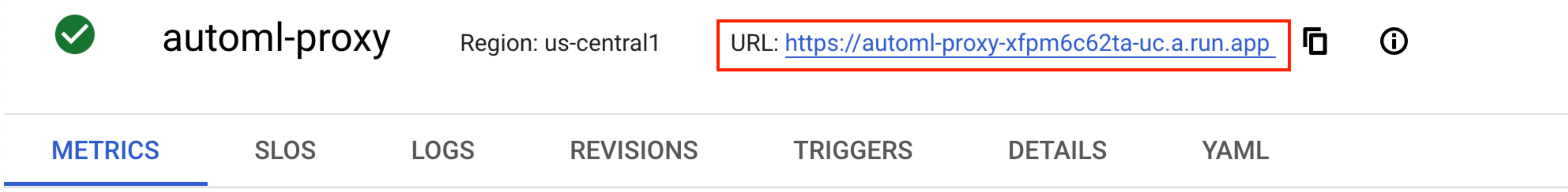
To request predictions from the model, you will send predictions to an endpoint inside of your project that will forward the request to the hosted model and return back the output. Sending a prediction to the AutoML Proxy is very similar to the way that you would interact with your model you just created, so you can use this as practice.

Get the name of AutoML proxy endpoint

1. In the Google Cloud Console, on the **Navigation menu** (≡) click **Cloud Run**.
2. Click **automl-proxy**.



3. Copy the **URL** to the endpoint. It should look something like: `https://automl-proxy-xfpm6c62ta-uc.a.run.app`.



You will use this endpoint for the prediction request in the next section.

Create a prediction request

1. Open a new Cloud Shell window.
2. On the Cloud Shell toolbar, click **Open Editor**.
3. Click **File** > **New File**.
4. Copy the following content into the new file you just created:

{ "instances": [{ "content":
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XESNgoomKCeIAM8RCBuZcQIGB2UUQRapB/7wlEEyfoAoopAqkucMTHZUaRMOgwcwoohDpsDGmck7She4hvf27KKJCHW46h5TsCic3yQ7
JGw4UUTUjWaRJE4wrawvGAcYlRRBWKRf5QJI2RhmlpESVFFCI1hBzsh0Fzoj6KKKUE2mAZ9NlTZJ2gDZRRRVpg57ImNyQeyiiYhGGtd3S
NZMgdlFEAyjJmN02NxEEqKJVAdQJB5RsAwO6iiksU5JxgpjGAFRRTMUWhrpO/dLfUaTAwooo0IYDgAzuj0xgDdRRSpjGz7conNAAxvwooh
EPohzg87jsmaTGON1FEhbWua0zlp2CFtOTjnZRRRo6dAgaiJE5C10aTXEgDbdRRRhzWCMtykXIDm6Rv6KKKiDbUXOdp/LyVufTNA03MiDgj
0UUQ1Gn5qRcG+aNlUSxoA3UUUqFzSAWn3Cx1z5YAnuoomM1i0w6RgdlpY7ykBRRIFTomZ3KfTokDPPCiiqIdRaGPkgHEEHZW2n2UURD
Rhk8KCiTMZUUVTIPTDS3nsibRjMZUUQTfBERz3RBugCRhRRQjVScx8ad+QtAkcKKIjVOpQcwmBwB2hRRIFIiRkIZIUUUha53CAlRRSHqx
CEt1HG5UUUmqlS8Nsztv7pFRxec7KKKS2NHG6eBuoopIx0+hTWO4CiiUMPKt0GDyoooCa780ZCMVAQe6iikslrx5gPdQNLflMjsVFFUiEEzs
UWQc/ooohAIBJn6FV5mnO3CiiktjhJkY9FbmgiQookP//Z" }], "parameters": { "confidenceThreshold": 0.5, "maxPredictions": 5 } }

5. **Save** the file and name it `payload.json`.

For reference, the content you supplied is a Base64 string from the following image.

6. Next, set the following environment variables. Copy in your AutoML Proxy URL you retrieved in earlier.

AUTOML_PROXY=https://automl-proxy-wxxxxxfa-uc.a.run.app INPUT_DATA_FILE=payload.json
AUTOML_PROXY=https://automl-proxy-wxxxxxfa-uc.a.run.app
INPUT_DATA_FILE=payload.json

7. Perform a API request to the AutoML Proxy endpoint to request the prediction from the hosted model:

curl -X POST -H "Content-Type: application/json" $AUTOML_PROXY/v1 -d "@${INPUT_DATA_FILE}"

If you ran a successful prediction, your output should resemble the following:

{"predictions":[{"confidences":[0.951557755],"displayNames":["bumper"],"ids":["1960986684719890432"]}],"deployedModelId":"4271461936421404672","model":"projects/1030115194620/locations/us-central1/models/2143634257791156224","modelDisplayName":"damaged_car_parts_vertex","modelVersionId":"1"}

For this model, the prediction results are pretty self-explanatory. The `displayNames` field should correctly predict a `bumper` with a high confidence threshold. Now, you can change the Base64 encoded image value in the JSON file you created.

Click *Check my progress* to verify the objective. Create the prediction request

8. Right-click on each image below, then select **Save image As…**.
9. Follow the prompts to save each image with a unique name. *(Hint: Assign a simple name like 'Image1' and 'Image2' to assist with uploading).*

10. Open the Base64 Image Encoder follow the instructions to upload and encode an image to a Base64 string.
11. Replace the Base64 encoded string value in the `content` field in your JSON payload file, and run the prediction again. Repeat for the other image(s).

How did your model do? Did it predict all three images correctly? You should see the the following outputs, respectively:

{"predictions":[{"ids":["5419751198540431360"],"confidences":[0.985487759],"displayNames":["engine_compartment"]}],"deployedModelId":"4271461936421404672","model":"projects/1030115194620/locations/us-central1/models/2143634257791156224","modelDisplayName":"damaged_car_parts_vertex","modelVersionId":"1"}

{"predictions":[{"displayNames":["hood"],"ids":["3113908189326737408"],"confidences":[0.962432086]}],"deployedModelId":"4271461936421404672","model":"projects/1030115194620/locations/us-central1/models/2143634257791156224","modelDisplayName":"damaged_car_parts_vertex","modelVersionId":"1"}

Congratulations!

In this lab, you learned how to train your own custom machine learning model and generate predictions on it through the web UI. You uploaded training images to Cloud Storage and used a CSV file for Vertex AI to find these images. You inspected the labeled images for any discrepancies before finally evaluating a trained model. Now you've got what it takes to train a model on your own image dataset.

End your lab

When you have completed your lab, click **End Lab**. Qwiklabs removes the resources you've used and cleans the account for you.

You will be given an opportunity to rate the lab experience. Select the applicable number of stars, type a comment, and then click **Submit**.

The number of stars indicates the following:

- 1 star = Very dissatisfied
- 2 stars = Dissatisfied
- 3 stars = Neutral
- 4 stars = Satisfied
- 5 stars = Very satisfied

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