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Google Kubernetes Engine

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ArtificialIntelligenceAutoMLVisi

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Data Fusion

Life Sciences

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Vertex AI

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AI Platform

Document AI

Natural Language

Discovery Engine

Recommendation...

Retail

Speech

Tables

Translation

Talent Solution

DocAI Warehouse

Vertex AI Vision

Enterprise KG

OTHER GOOGLE PRODUCTS

Google Maps Plat...

OVERVIEW

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APPLICATION DEVELOPMENT

Studio

Applications

Streams

Warehouses

OTHER PRODUCTS

ML APIs

Vertex AI training

Welcome

You're working in project 1

Project number: 1055928596479

Project ID: capable-gasket-402301

Dashboard

Recommendations

Create a VM

Run a query in BigQuery

Create a GKE cluster

Create a storage bucket

APIs & Services

IAM & Admin

Billing

Compute Engine

Cloud Storage

BigQuery

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Kubernetes Engine

View all products

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Vertex AI Vision

Overview

Overview

Overview

Application development

Studio

Applications

Streams

Warehouses

Other products

ML APIs

Vertex AI training

Build applications to analyze video and image data

Vertex AI Vision lets you process and analyze your video streams and images at scale. Quickly build an application and deploy it to Google Cloud, using the built-in, low-code user interface. [Learn more](#)

CREATE APPLICATION

How Vertex AI Vision applications work

Create an application

Pull data from streaming URLs, Cloud Storage, BigQuery, and more.

Analyze with AI models

Use Google's pre-trained models, or bring in your models from Vertex AI.

Deploy your application


Access insights through a REST API, web/mobile app, and more.

Store insights for fast retrieval later

Store your metadata and use it to generate business insights. [Learn about Vision Warehouse](#)

Try out AI Studio NEW

"A raccoon dressed as Rembrandt."



Create and edit images with Google's state-of-the-art image generation models

OPEN STUDIO

Use a pre-trained API

Get insights without training. Google's ML APIs cover a wide range of computer vision cases like detecting objects and faces, reading printed and handwritten text, and building valuable metadata into your image catalog.

Google's ML APIs can't be used to train a custom model, but they are highly efficient for common use cases and offer high quality with no training required. [View docs](#)

VIEW ML APIS

More products in Google Cloud

[Vertex AI](#)
Build image/video classification, object tracking, and action recognition models with AutoML. No coding required.

[AutoML Vision](#)

[AutoML Video Intelligence](#)

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LEARN Tutorial

Recommended for you

Intro to Vertex AI

Help document

Learn where Vertex AI fits into the ML workflow and how to use it.

Best practices for implementing machine learning on Google Cloud

Help document

Recommendations on how to develop a custom-trained model throughout the machine learning workflow.

Create and test a text prompt

Tutorial

Learn how to design a prompt and test it in Generative AI Studio.

Tune a foundation model

Tutorial

Learn how to tune and test a Google foundation model.

Test out a large language chat model

Tutorial

Learn how to use a multi-turn large language chat model.

Migrating to Vertex AI

Help document

Coming from AI Platform? Migrate your resources to Vertex AI.

AutoML model types

Help document

Build AutoML models using text, tabular, image, and video data.

Vertex AI

Dashboard

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Get started with Vertex AI

Vertex AI empowers machine learning developers, data scientists, and data engineers to take their projects from ideation to deployment, quickly and cost-effectively. [Learn more about Vertex AI](#)

ENABLE ALL RECOMMENDED APIS




Tutorials

Try an interactive tutorial to learn how to train, evaluate, and deploy a Vertex AI AutoML or custom-trained model.

VIEW TUTORIALS


SHOW API LIST



Colab Enterprise

A new notebook experience with enterprise-grade privacy and security. Start coding in a couple clicks.


Go to Colab Enterprise



Model Garden

Browse, customize, and deploy machine learning models. Choose from Google or popular open-source models.


Try now



Vertex AI Studio

Test and customize large language and generative image models.

Try now




Prepare Data

Datasets

Store and manage training data.

Data labeling

Human labelers on training data.




Model Development

Model Garden

Tune and deploy a Google or open-source model.

Training



Deploy & Use

Model Registry

Manage your models in Vertex AI.

Endpoints

https://console.cloud.google.com/vertex-ai/datasets?hl=en&project=capable-gasket-402301

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+ CREATE


REFRESH

Managed datasets contain data used to train a machine learning model. [Learn more](#)

Region
us-central1 (Iowa)

Filter Enter a property name

Name	ID	Status	Region	Type	Items	Last updated	Labels
No results to display							



You don't have any datasets in this region yet

CREATE DATASET

Recommended for you

Prepare image data

Help document

Prepare image data for use in a Vertex AI dataset.

Creating a dataset using the console

Help document

Use the console (or API) to create an empty dataset and import your data into the dataset.

Using a managed dataset in a custom training application

Help document

Use datasets managed by Vertex AI with custom-trained models.

Use cases for Vertex AI

Help document

Explore use cases, best practices, and industry solutions.

Terraform samples

Help document

See examples of using Terraform to create Vertex AI resources.

Getting support

Help document

Learn where to get support for Vertex AI.

Troubleshooting

Help document

Learn about troubleshooting steps that you might find helpful if you run into problems when you use Vertex AI.

WhatsApp

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Create dataset

Dataset name *

KenaliHewan

Can use up to 128 characters.

Select a data type and objective

First select the type of data your dataset will contain. Then select an objective, which is the outcome that you want to achieve with the trained model. [Learn more](#)

IMAGE

TABULAR

TEXT

VIDEO




Image classification (Single-label)

Predict the one correct label that you want assigned to an image.




Image classification (Multi-label)

Predict all the correct labels that you want assigned to an image.

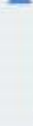


Image object detection

Predict all the locations of objects that you're interested in.




Image segmentation

Predict per-pixel areas of an image with a label.

Region

us-central1 (Iowa)

Encryption

☒ Google-managed encryption key

No configuration required

☐ Customer-managed encryption key (CMEK)

Manage via [Google Cloud Key Management Service](#)

SHOW LESS

You can use this dataset for other image-based objectives later by creating an annotation set. [Learn more](#)

CREATE

CANCEL

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Add images to your dataset

Before you begin, review the data guide to make sure your data is formatted correctly and optimized for the best results. Supported image file formats: JPEG, PNG, GIF, BMP, TIFF, WebP, ICO

VIEW DATA GUIDE

Select an import method

Upload images: Recommended if you don't have labels yet

Import files: Recommended if you already have labels. An import file is a list of Cloud Storage URIs to your images and optional data, like labels. [Learn how to create an import file](#)

☒ Upload images from your computer

☐ Upload import files from your computer

☐ Select import files from Cloud Storage

Upload images from your computer

Add up to 500 images per upload. Images will be preprocessed and stored in Cloud Storage.

ayam 30.jpeg	1 file	X	Data split Default	?
ayam 29.jpeg	1 file	X	Data split Default	?
ayam 28.jpeg	1 file	X	Data split Default	?
ayam 27.jpeg	1 file	X	Data split Default	?
ayam 25.jpeg	1 file	X	Data split Default	?
ayam 24.jpeg	1 file	X	Data split Default	?
ayam 23.jpeg	1 file	X	Data split Default	?

Summary




Image classification models predict one (or many) labels for an image. For example, identifying types of clouds from images of the sky.

Instead of creating a custom model, try Google's Vision API to detect generic objects, faces, and text. [Learn more](#)

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kambing 7.jpeg

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kambing 2.jpeg

1 file

X

Data split

Default

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kambing 1.jpeg

1 file

X

Data split

Default

?

SELECT FILES

Select a Cloud Storage path

After the images are preprocessed, they'll be stored in a new Cloud Storage bucket ([charges apply](#)).

Cloud Storage path *

gs:// kenalibilangan

BROWSE

?

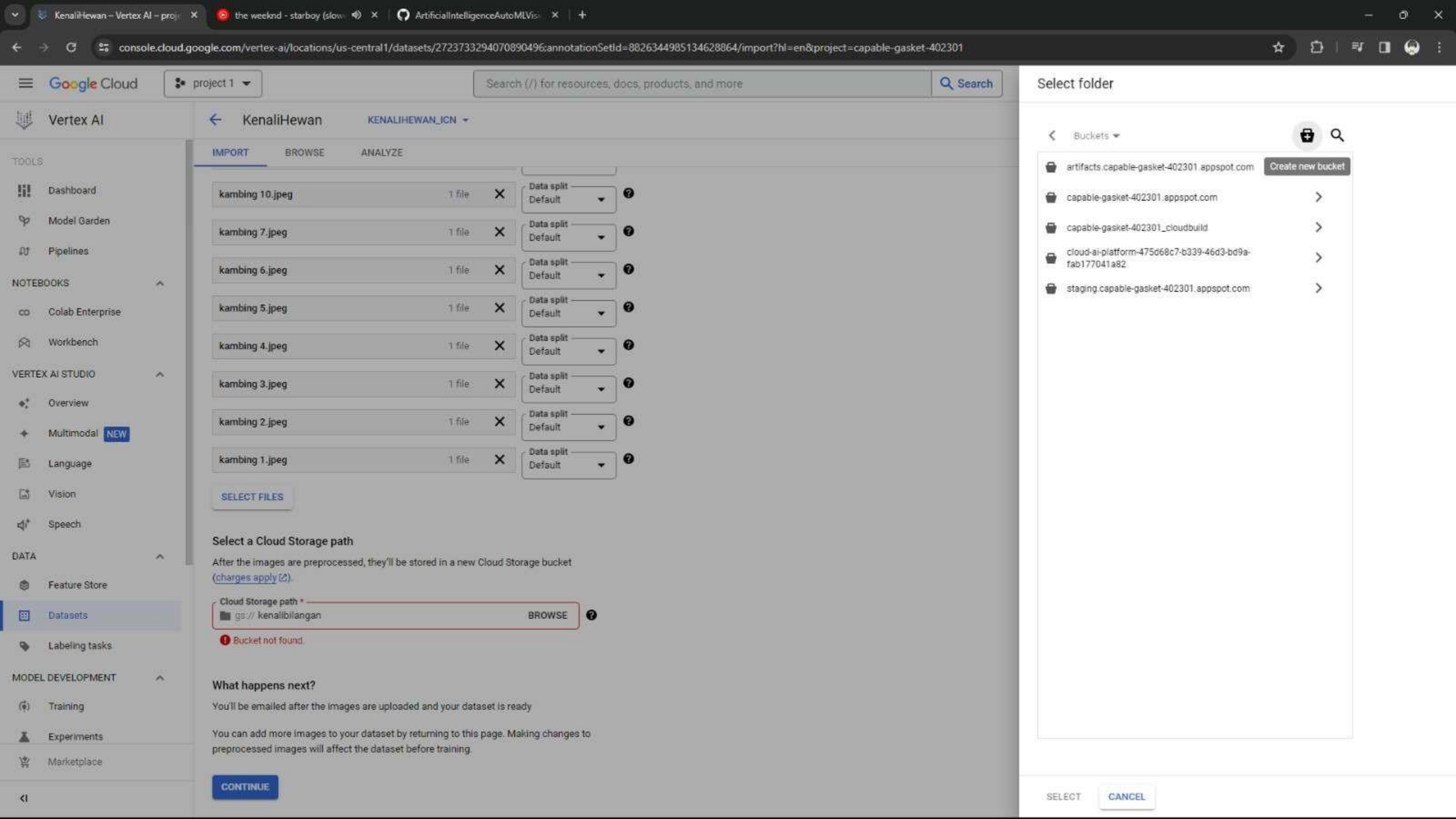
Bucket not found.

What happens next?

You'll be emailed after the images are uploaded and your dataset is ready

You can add more images to your dataset by returning to this page. Making changes to preprocessed images will affect the dataset before training.

CONTINUE



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kambing 5.jpeg	1 file	X	Data split Default	?
kambing 4.jpeg	1 file	X	Data split Default	?
kambing 3.jpeg	1 file	X	Data split Default	?
kambing 2.jpeg	1 file	X	Data split Default	?
kambing 1.jpeg	1 file	X	Data split Default	?

SELECT FILES

Select a Cloud Storage path

After the images are preprocessed, they'll be stored in a new Cloud Storage bucket. (charges apply)

Cloud Storage path *

gs://kenalibilangan

BROWSE

?

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✓ Name your bucket

Pick a globally unique, permanent name. [Naming guidelines](#)

kenaliayamdankambing

Tip: Don't include any sensitive information

LABELS (OPTIONAL)

CONTINUE

Choose where to store your data

This choice defines the geographic placement of your data and affects cost, performance, and availability. Cannot be changed later. [Learn more](#)

Location type

☐ Multi-region

Highest availability across largest area

☐ Dual-region

High availability and low latency across 2 regions

☒ Region

Lowest latency within a single region

us-central1 (Iowa)

CONTINUE

Choose a storage class for your data

A storage class sets costs for storage, retrieval, and operations, with minimal differences in uptime. Choose if you want objects to be managed automatically or specify a default storage class based on how long you plan to store your data and your workload or use case. [Learn more](#)

☐ Autoclass

Automatically transitions each object to Standard or Nearline class based on object-level activity, to optimize for cost and latency. Recommended if usage frequency may be unpredictable. Can be changed to a default class at any time. [Pricing details](#)

☒ Set a default class

Applies to all objects in your bucket unless you manually modify the class per object or set object lifecycle rules. Best when your usage is highly predictable. Can't be changed to Autoclass once the bucket is created.

☒ Standard

Best for short-term storage and frequently accessed data

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kambing 2.jpeg1 fileXData splitDefault?

kambing 1.jpeg1 fileXData splitDefault?

SELECT FILES

Select a Cloud Storage path

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Cloud Storage path *gs://kenalibilanganBROWSE?

Bucket not found.

What happens next?

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You can add more images to your dataset by returning to this page. Making changes to preprocessed images will affect the dataset before training.

CONTINUE

Best for disaster recovery and data accessed less than once a quarter

Archive

Best for long-term digital preservation of data accessed less than once a year

CONTINUE

Choose how to control access to objects

Prevent public access

Restrict data from being publicly accessible via the internet. Will prevent this bucket from being used for web hosting. [Learn more](#)

Enforce public access prevention on this bucket

Access control

Uniform

Ensure uniform access to all objects in the bucket by using only bucket-level permissions (IAM). This option becomes permanent after 90 days. [Learn more](#)

Fine-grained

Specify access to individual objects by using object-level permissions (ACLs) in addition to your bucket-level permissions (IAM). [Learn more](#)

CONTINUE

Choose how to protect object data

Your data is always protected with Cloud Storage but you can also choose from these additional data protection options to prevent data loss. Note that object versioning and retention policies cannot be used together.

Protection tools

None

Object versioning (for data recovery)

For restoring deleted or overwritten objects. To minimize the cost of storing versions, we recommend limiting the number of noncurrent versions per object and scheduling them to expire after a number of days. [Learn more](#)

Retention policy (for compliance)

For preventing the deletion or modification of the bucket's objects for a specified minimum duration of time after being uploaded. [Learn more](#)

DATA ENCRYPTION

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kambing 4.jpeg1 fileXData splitDefault?

kambing 3.jpeg1 fileXData splitDefault?

kambing 2.jpeg1 fileXData splitDefault?

kambing 1.jpeg1 fileXData splitDefault?

SELECT FILES

Select a Cloud Storage path

After the images are preprocessed, they'll be stored in a new Cloud Storage bucket (charges apply).

Cloud Storage path *gs:// kenalibilanganBROWSE?

Bucket not found.

What happens next?

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You can add more images to your dataset by returning to this page. Making changes to preprocessed images will affect the dataset before training.

CONTINUE

Created bucket kenaliyamdankambing

Select folder

kenaliyamdankambing

No objects found

SELECTCANCEL

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Lil Nas X /// Montero

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kambing 6.jpeg	1 file	X	Data split Default	?
kambing 5.jpeg	1 file	X	Data split Default	?
kambing 4.jpeg	1 file	X	Data split Default	?
kambing 3.jpeg	1 file	X	Data split Default	?
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SELECT FILES

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Cloud Storage path *
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Nightcore - Royalty - YouTu

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Labels

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All53

Labeled0

Unlabeled53


Filter+

ADD NEW LABEL


Images

FilterEnter label or property name


Select all




No labels




No labels




No labels




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No labels



No labels

Related resources

Training jobs and models

Use this dataset and annotation set to train a new machine learning model with AutoML or custom code

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

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Labels53530


Filter+ayam26kambing27


ADD NEW LABEL


Images


Filter Enter label or property name


Select all


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Related resources

Training jobs and models

Use this dataset and annotation set to train a new machine learning model with AutoML or custom code

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

27 images updated

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Labels

All53Labeled0Unlabeled53


Filter+


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ADD NEW LABEL


Images


25 selectedASSIGN LABELSASSIGN ML USEDELETE


No labels


No labels


No labels


No labels

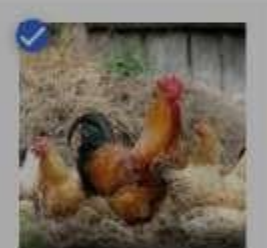
No labels

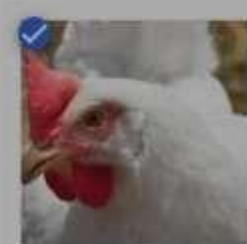
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Assign Labels

FilterFilter labels

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SAVE

CANCEL

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console.cloud.google.com/vertex-ai/locations/us-central1/datasets/2723733294070890496:annotationSetId=8826344985134628864/browse?hl=en&project=capable-gasket-402301

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KenaliHewanKENALIHewan_ICN

IMPORTBROWSEANALYZE

Labels53530


Filter+ayam26kambing27


ADD NEW LABEL


Images


Filter Enter label or property name


Select all


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Training jobs and models

Use this dataset and annotation set to train a new machine learning model with AutoML or custom code

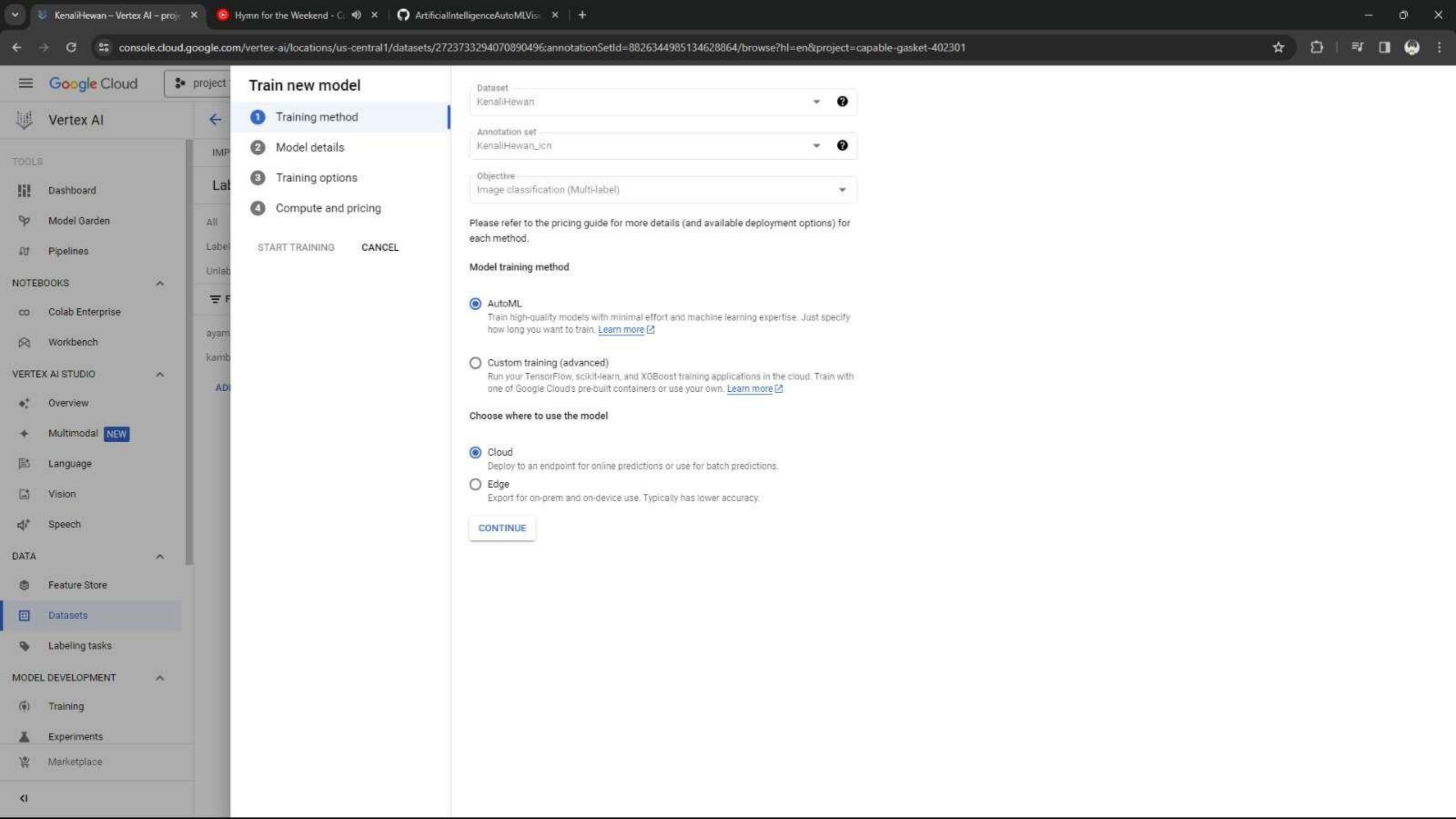
TRAIN NEW MODEL

You have enough labeled items to start training with AutoML.

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

CREATE LABELING TASK

27 images updated



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Train new model

✓ Training method

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START TRAINING

CANCEL

☒ Train new model

Creates a new model group and assigns the trained model as version '1'

☐ Train new version

Trains model as a version of an existing model

Name *

KenaliHewan

Description

Data split

☒ Random

☐ Manual (Advanced)

Your dataset will be automatically randomized and split into training, validation, and test sets using the following ratios. [Learn more](#)

Training

80

%

Validation

10

%

Test

10

%

● Training: 80%

● Validation: 10%

● Test: 10%

Encryption

☒ Google-managed encryption key

No configuration required

☐ Customer-managed encryption key (CMEK)

Manage via [Google Cloud Key Management Service](#)

Model ID

SHOW LESS

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START TRAINING

CANCEL

Goal	Accuracy	Latency
<input type="radio"/> Higher accuracy (new)	Higher	200ms - 300ms
<input checked="" type="radio"/> Default	Lower	300ms - 400ms

Please note that prediction latency estimates are for guidance only. Actual latency depends on your network connectivity.

Incremental training

Incremental training lets you use an existing base model as a starting point to train a new model (rather than training a new model from scratch). [Learn more about incremental training](#)

☐ Enable incremental training

CONTINUE

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CANCEL

In Vertex AI, models are made explainable through feature attribution, which tells you how much each feature contributed to the predicted result. You can use this information to verify that the model is behaving as expected, recognize bias in your models, and get ideas for ways to improve your model and your training data. Explainability will incur a minor additional cost. [Learn more](#)

☐ Generate explainable bitmaps for each image in the test set

CONTINUE

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✓ Explainability (optional)

5 Compute and pricing

START TRAINING

CANCEL

Enter the maximum number of node hours you want to spend training your model.

You can train for as little as 8 node hours. You may also be eligible to train with free node hours. [Pricing guide](#)

Budget *

8

Maximum node hours

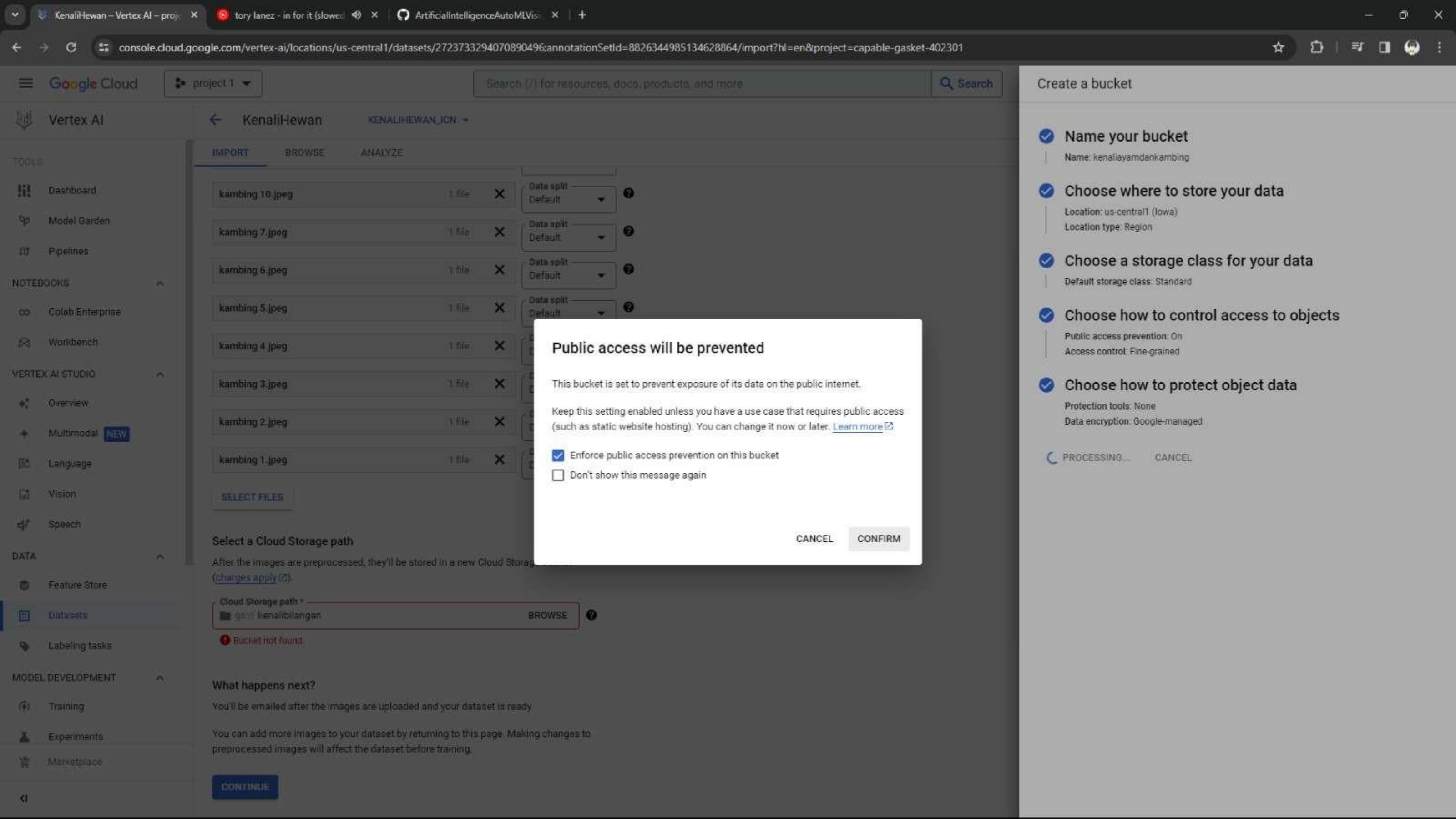
Estimated completion: 1 hour

Factors like dataset size and evaluation metrics generation can make training take longer than estimated

✓

Enable early stopping

Ends model training when no more improvements can be made and refunds leftover training budget. If early stopping is disabled, training continues until the budget is exhausted.



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Training model...

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

https://console.cloud.google.com/vertex-ai/locations/us-central1/training/4351587403186569216?hl=en&project=capable-gasket-402301

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VIEW TRAINING DATASET

Training began at Jan 11, 2024, 2:37:23 PM and is still in progress.

Status	Training
Training pipeline ID	4351587403186569216
Created	Jan 11, 2024, 2:37:22 PM
Start time	Jan 11, 2024, 2:37:23 PM
Budget (original)	8 node hours
Elapsed time	17 sec
Region	us-central1
Encryption type	Google-managed

Dataset	KenaliHewan
Annotation set	KenaliHewan_icn
Data split	Randomly assigned (80/10/10)

Algorithm	AutoML
Objective	Image classification (Multi-label)

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console.cloud.google.com/vertex-ai/models/locations/us-central1/models/3016266059222089728/versions/1/deploy?hl=id&project=capa...

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Batch predictions

Vector Search

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EVALUATE

DEPLOY & TEST

BATCH PREDICT

VERSION DETAILS

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

Endpoint "Kenaliayamdankambing" encountered an error and can't be created. It will automatically be deleted in 30 days.

DISMISS

Name	ID	Status	Models	Deployment resource pool
Kenaliayamdankambing	7729489777451335680	Deploying model	0	—
Kenaliayamdankambing	6863250536624291840	Deployment failed	0	—

Test your model

PREVIEW

Your model must be successfully deployed to an endpoint before you can test it.

LEARN Tutorial

Recommended for you

Choosing a training method

Help document

Understand key differences between AutoML and custom training.

Training AutoML models

Help document

Train AutoML models by using the Google Cloud console or the Vertex AI API.

Creating a model using custom training

Help document

Develop a custom training application and create a model using custom training.

Getting support

Help document

Learn where to get support for Vertex AI.

Troubleshooting

Help document

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Learn about the recommended steps that you might find helpful if you run into problems when you use Vertex AI.

Billing questions

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Learn more about billing details.

Hello image data

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Use an image dataset to train an AutoML model.

Hello text data

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Use a text dataset to train an AutoML model.

Hello video data

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use a video dataset to train an AutoML model.

Hello custom training

Help document

Bring your own code to Vertex AI by using a sample app to train an image recognition model.

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