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console.cloud.google.com/welcome?_ga=2.157769341.-679614322.1702436772&_gac=1.251473202.1704956789.EA1aIQobChMI0ZW3k7eLgwMVxhODAx2idQEREAAYASAAEgK_qvD_BwE&hl=en&pli=1&project=capable-gasket-402301

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Vertex AI

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Natural Language

Discovery Engine

Recommendation...

Retail

Speech

Tables

Translation

Talent Solution

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Vertex AI Vision

Enterprise KG

OTHER GOOGLE PRODUCTS

Google Maps Plat...

Welcome

You're working in project 1

Project number: 1055928596479

Project ID: capable-gasket-402301

Dashboard

Recommendations

Create a VM

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OVERVIEW

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APPLICATION DEVELOPMENT

Studio

Applications

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ML APIs

Vertex AI training

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Vertex AI Vision

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Overview

Overview

Application development

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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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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

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.

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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

<input type="checkbox"/>	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.

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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.

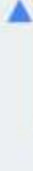


Image object detection

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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IMPORTBROWSEANALYZE

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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the weeknd - starboy (slow...

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BROWSE

ANALYZE

kambing 10.jpeg

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Data split

Default

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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

Google Cloud

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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.

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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

Select folder

Buckets

artifacts.capable-gasket-402301.appspot.comCreate new bucket

capable-gasket-402301.appspot.com>

capable-gasket-402301_cloudbuild>

cloud-ai-platform-475d68c7-b339-46d3-bd9a-fab177041a82>

staging.capable-gasket-402301.appspot.com>

SELECT

CANCEL

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CONTINUE

✓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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Cloud Storage path *gs://kenalibilanganBROWSE?

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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 2.jpeg1 fileXData splitDefault?

kambing 1.jpeg1 fileXData splitDefault?

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Created bucket kenaliyamdankambing

X

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Select folder

kenaliyamdankambing

No objects found

SELECTCANCEL

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kambing 10.jpeg	1 file	X	Data split Default	?
kambing 7.jpeg	1 file	X	Data split Default	?
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	?
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

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Cloud Storage path *
gs:// kenaliayamdankambing

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Labels

All53

Labeled0

Unlabeled53

Filter


+

ADD NEW LABEL


Images

FilterEnter label or property name


Select all




No labels




No labels




No labels




No labels




No labels




No labels




No labels




No labels




No labels




No labels




No labels




No labels



No labels



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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Labels53053

Filter+

ADD NEW LABEL

Images

FilterEnter label or property name

Select all

Label

ayam

CANCEL

DONE

No labels

No labels

No labels

No labels

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No labels

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

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Labeled 53

Unlabeled 0

Filter +

Filter

ayam 26


kambing 27

ADD NEW LABEL


Images

Filter Enter label or property name


Select all




ayam




kambing




ayam




kambing




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kambing



ayam

27 images updated

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Labels53053


Filter+00


ADD NEW LABEL


25 selectedASSIGN LABELSASSIGN ML USEDELETE


No labels

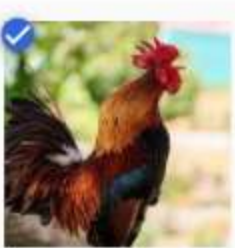
No labels


No labels


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No labels

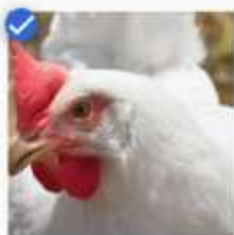
No labels


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All53

Labeled0

Unlabeled53

Filter

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Filter


Filter labels

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ADD NEW LABEL


Images




No labels




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No labels



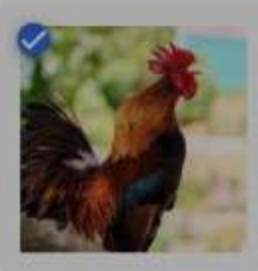
No labels




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Assign Labels

Filter

Filter labels

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SAVE

CANCEL

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Train new model

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4 Compute and pricing

START TRAINING

CANCEL

Dataset

KenaliHewan

Annotation set

KenaliHewan_ich

Objective

Image classification (Multi-label)

Please refer to the pricing guide for more details (and available deployment options) for each method.

Model training method

☒ AutoML

Train high-quality models with minimal effort and machine learning expertise. Just specify how long you want to train. [Learn more](#)

☐ Custom training (advanced)

Run your TensorFlow, scikit-learn, and XGBoost training applications in the cloud. Train with one of Google Cloud's pre-built containers or use your own. [Learn more](#)

Choose where to use the model

☒ Cloud

Deploy to an endpoint for online predictions or use for batch predictions.

☐ Edge

Export for on-prem and on-device use. Typically has lower accuracy.

CONTINUE

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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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Train new model

✓ Training method

✓ Model details

✓ Training options

4 Explainability (optional)

5 Compute and pricing

START TRAINING

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

Train new model

- ✓ Training method
- ✓ Model details
- ✓ Training options
- ✓ 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

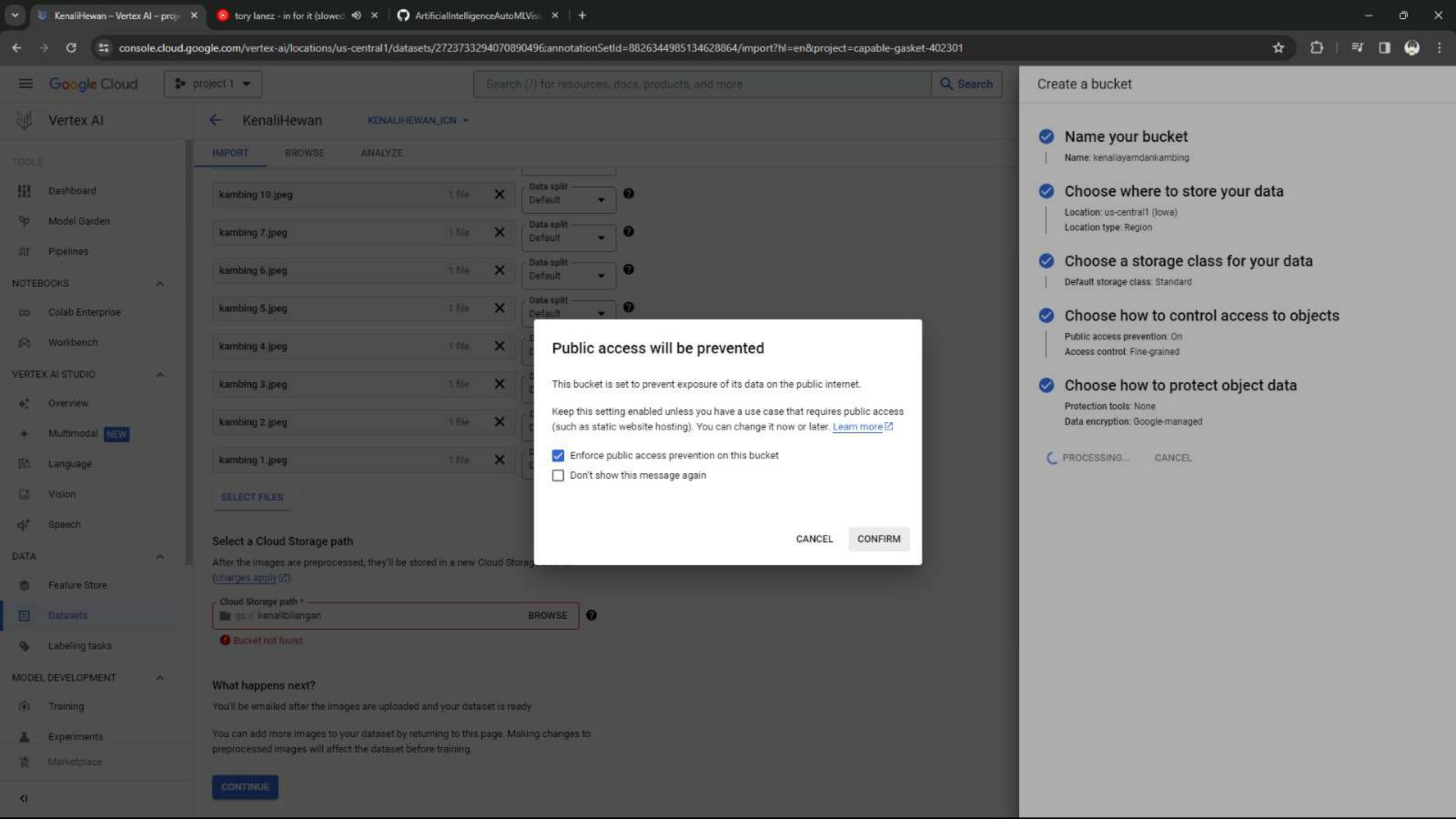
Maximum node-hours

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.



← KenaliHewan KENALIHewan_ICN ▾

ANALYZE

53

53

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26

27

[ADD NEW LABEL](#)

 Filter Enter label or property name

☐ Select all

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KenaliHewan
Training model...

TRAIN NEW MODEL

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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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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Images


Filter

Enter label or property name

Select all



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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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Deploy to endpoint

1 Define your endpoint

2 Model settings

DEPLOY CANCEL

☒ Create new endpoint

☐ Add to existing endpoint

Endpoint name *

Kenaliayamdankambing

Location

Region

us-central1 (Iowa)

Access

Determines how your endpoint can be accessed. By default, endpoints are available for prediction serving through a REST API. Endpoint access can't be changed after the endpoint is created.

☒ Standard

Makes the endpoint available for prediction serving through a REST API. AutoML and custom-trained models can be added to standard endpoints.

☐ Private

Create a private connection to this endpoint using a VPC network and [private services access](#). Only custom-trained and tabular models can be added to private endpoints. [Learn more](#)

Encryption

☒ Google-managed encryption key

No configuration required

☐ Customer-managed encryption key (CMEK)

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

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Deploy to endpoint

Define your endpoint

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Edit model

KenaliHewan (Version 1)

Traffic split *

100

% ?

AutoML image classification and object detection models require a fixed number of compute nodes per model. If you want to change your compute resources for this model in the future, you will have to create a new endpoint.

[Pricing guide](#)

The number of nodes you specify in the input field below will always be ready, and you will be charged continuously for them. [Learn more about nodes and prediction cost](#)

Number of compute nodes *

1

The number of nodes to allocate for this endpoint.

Logging

Logging settings are permanent for this endpoint, and Logging charges will apply. To change your logging preference in the future, create a new endpoint. [Learn more](#)

Enable access logging for this endpoint

It may take several minutes for endpoint settings to take effect.

DONE

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Deploying a model to an endpoint lets it serve online predictions. You can also deploy multiple models to one endpoint and split traffic. This lets you test out a new model before serving all traffic. [Learn more about model deployment](#)

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Traffic split: 100%

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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.

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- Kotak Masuk 2.462
- Berbintang
- Ditunda
- Terkirim
- Draf 5
- Selengkapnya

- Label +
- angelinenatasya_2... 3
 - Moved 2022-09-30... 3

Vertex AI finished creating endpoint "Kenaliayamdankambing" Kotak Masuk x

Vertex AI <noreply-vertexai@google.com> 22.03 (1 jam yang lalu) ☆ 😊 ↩ ⋮
kepada saya ▾

Hello Vertex AI Customer,

Vertex AI finished creating endpoint "Kenaliayamdankambing".
Additional Details:
Operation State: Succeeded
Resource Name:
projects/1055928596479/locations/us-central1/endpoints/7729489777451335680

To continue your progress, go back to your endpoint using
<https://console.cloud.google.com/vertex-ai/models/locations/us-central1/models/3016266059222089728/versions/1/deploy?hl=id&project=capable-gasket-402301>

Sincerely,
The Google Cloud AI Team

↩ Balas ↪ Teruskan 😊

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PREVIEW



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Use a text dataset to train an AutoML model.

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

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