

MODUL 9 ARTIFICIAL INTELLIGENCE

GitHub - ahyarmuawwal/AutoML-Vision-Google-Cloud---Ahyar

Course: Praktikum Cloud Computing

My Billing Account - Overview

github.com/ahyarmuawwal/AutoML-Vision-Google-Cloud---Ahyar

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CodeIssuesPull requestsActionsProjectsSecurityInsights

master1 Branch0 Tags

ahyarmuawwal update data angka

DATASETupdate data angka

IMAGE TESTINGGambar Dataset AutoML Vision

.gitattributesInitial commit

Go to file

Code

Clone

Which remote URL should I use?

HTTPS

GitHub CLI

https://github.com/ahyarmuawwal/AutoML-Vision-Google-Cloud---Ahyar.git

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

Bahan untuk automl Vision Google cloud, dimana dalam project ini berisi gambar dataset untuk training dan satu folder lagi image testing untuk melakukan testing prediksi gambar

Activity

0 stars

2 watching

0 forks

Report repository

Releases

No releases published

Packages

No packages published

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https://docs.github.com/articles/which-remote-url-should-i-use

MODUL 9 ARTIFICIAL INTELLIGENCE

GitHub - ahyarmuawwal/AutoM

Course: Praktikum Cloud Comp

Welcome - project 1 - Google

console.cloud.google.com/welcome?\_ga=2.153065982.-679614322.1702436772&\_gac=1.238756404.1704759402.EAlalQobChMI0ZW3k7eLgwMVxhODAx2idQEREAAYASAAEgK\_qvD\_BwE&hl=en&pli=1&project=capable-gasket-402301

Google Cloud

project 1

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Vertex AI

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Natural Language

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Recommendation...

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Talent Solution

DocAI Warehouse

Vertex AI Vision

Enterprise KG

OTHER GOOGLE PRODUCTS

Google Maps Plat...

Immersive Stream

Overview

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

VPC network

Kubernetes Engine

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Overview – Vertex AI Vision

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console.cloud.google.com/ai/vision-ai?hl=en&project=capable-gasket-402301

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Vertex AI Vision

Overview

Overview

Application development

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Warehouses

Other products

ML APIs

Vertex AI training

Overview

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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Dashboards - Vertex AI - project

GitHub - ahyarmuawwal/AutoML

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Vertex AI

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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

Model Development

Model Registry

Manage your models in Vertex AI.

Deploy & Use

Endpoints

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.

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Vertex AI - project 1 - Google

GitHub - ahymuawwal/AutoM

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

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+ CREATE

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

LEARN Tutorial

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 – Vertex AI – pr

GitHub - ahyarmuawwal/AutoM

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

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Create dataset

Dataset name \*

KenaliAngka

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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Open

Back

Forward

Up

Down

Downloads > AutoML-Vision-Google-Cloud---Ahyar-master > DATASET

Search DATASET

Organize

New folder

OneDrive

Desktop

Downloads

Documents

Pictures

Music

Videos

Screenshots

Local Disk (E:)

Name	Date modified	Type	Size
photo_2020-06-08_11-38-10	09/06/2020 10:14	JPG File	80 KB
photo_2020-06-08_11-38-11	09/06/2020 10:14	JPG File	95 KB
photo_2020-06-08_11-38-12 (2)	09/06/2020 10:14	JPG File	87 KB
photo_2020-06-08_11-38-12	09/06/2020 10:14	JPG File	85 KB
photo_2020-06-08_11-38-13 (2)	09/06/2020 10:14	JPG File	82 KB
photo_2020-06-08_11-38-13	09/06/2020 10:14	JPG File	82 KB
photo_2020-06-08_11-38-14 (2)	09/06/2020 10:14	JPG File	89 KB
photo_2020-06-08_11-38-14	09/06/2020 10:14	JPG File	91 KB
photo_2020-06-08_11-38-16	09/06/2020 10:14	JPG File	89 KB
photo_2020-06-08_11-38-24	09/06/2020 10:14	JPG File	70 KB

File name: "0" "1" "2" "5" "11" "photo\_2020-06-08\_11-37-28" "photo\_2020-06-08\_11-37-30" "photo\_2020-06-0-0" Custom Files

OpenCancel

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☒ 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.

SELECT FILES

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](#)

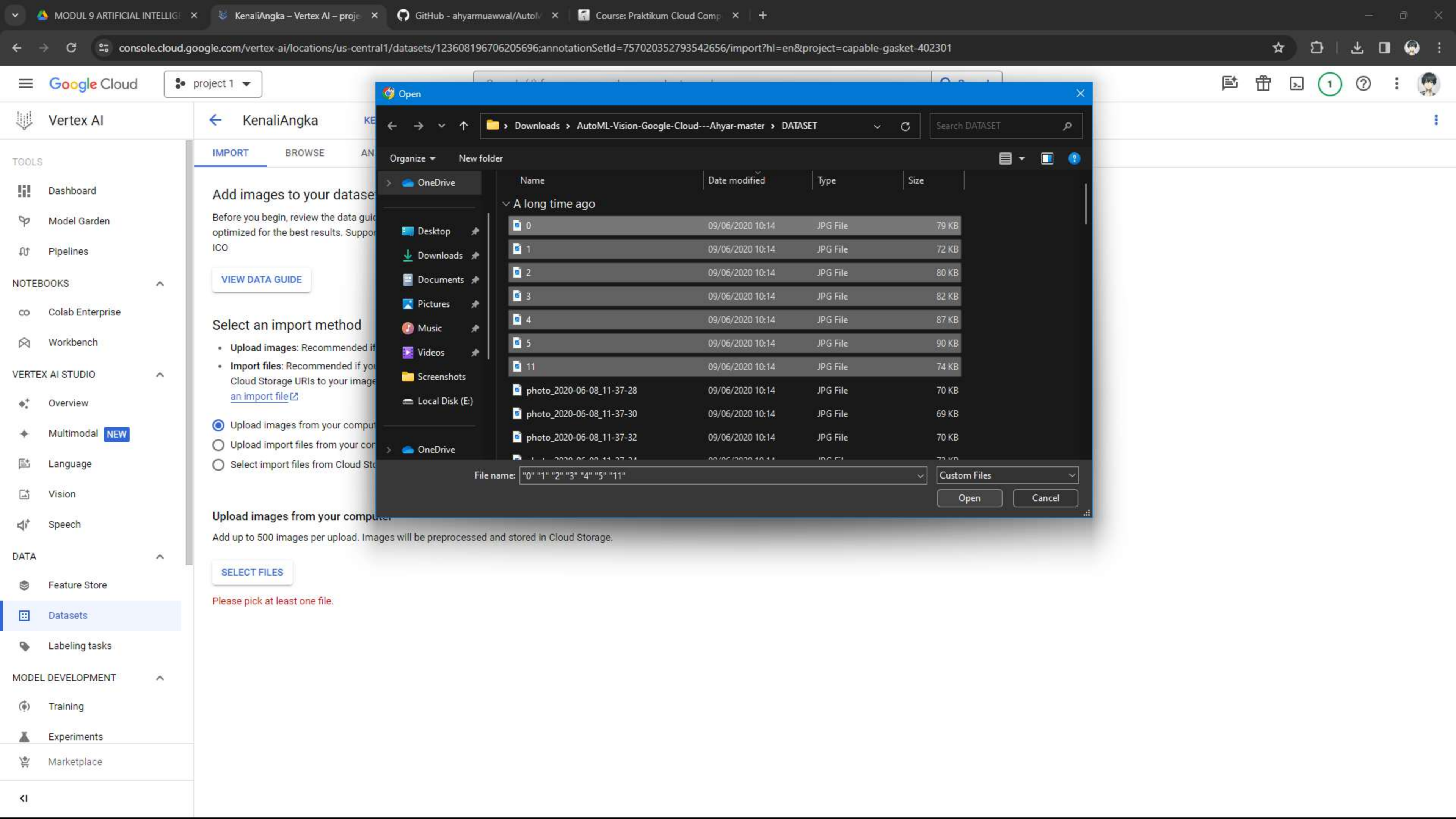
5/import?hl=en&project=capable-gasket-402301

Search

1

US

IS







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console.cloud.google.com/vertex-ai/locations/us-central1/datasets/123608196706205696;annotationSetId=757020352793542656/import?hl=en&project=capable-gasket-402301

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ANALYZE

Upload images from your computer

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

0.jpg

1 file

X

Data split

Default

?

1.jpg

1 file

X

Data split

Default

?

2.jpg

1 file

X

Data split

Default

?

3.jpg

1 file

X

Data split

Default

?

4.jpg

1 file

X

Data split

Default

?

5.jpg

1 file

X

Data split

Default

?

11.jpg

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).

gs:// Cloud Storage path \*

BROWSE

?

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

Select folder

Buckets

Create new bucket

artifacts.capable-gasket-402301.appspot.com

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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console.cloud.google.com/vertex-ai/locations/us-central1/datasets/123608196706205696;annotationSetId=757020352793542656/import?hl=en&project=capable-gasket-402301

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Upload images from your computer

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

0.jpg1 fileX

1.jpg1 fileX

2.jpg1 fileX

3.jpg1 fileX

4.jpg1 fileX

5.jpg1 fileX

11.jpg1 fileX

SELECT FILES

Data splitDefault?

Data splitDefault?

Data splitDefault?

Data splitDefault?

Data splitDefault?

Data splitDefault?

Select a Cloud Storage path

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

gs:// Cloud Storage path

BROWSE

?

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

Name your bucket

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

kenalihewan

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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5.jpg1 fileX

11.jpg1 fileX

SELECT FILES

Select a Cloud Storage path

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gs:// Cloud Storage path

BROWSE

What happens next?

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CONTINUE

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

Nearline

Best for backups and data accessed less than once a month

Coldline

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

Protection tools: None

Data encryption: Google-managed

CREATECANCEL



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Upload images from your computer

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0.jpg1 fileX

1.jpg1 fileX

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3.jpg1 fileX

4.jpg1 fileX

5.jpg1 fileX

11.jpg1 fileX

SELECT FILES

Select a Cloud Storage path

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

gs:// Cloud Storage path \*

BROWSE

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

Public access will be prevented

This bucket is set to prevent exposure of its data on the public internet.

Keep this setting enabled unless you have a use case that requires public access (such as static website hosting). You can change it now or later. [Learn more](#)

☒ Enforce public access prevention on this bucket

☐ Don't show this message again

CANCEL

CONFIRM

Create a bucket

✓ Name your bucket

Name: kenalihewan

✓ Choose where to store your data

Location: us-central1 (Iowa)

Location type: Region

✓ Choose a storage class for your data

Default storage class: Standard

✓ Choose how to control access to objects

Public access prevention: On

Access control: Fine-grained

✓ Choose how to protect object data

Protection tools: None

Data encryption: Google-managed

PROCESSING...

CANCEL

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1 file

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Data split

Default

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Data split

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11.jpg

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Data split

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gs:// Cloud Storage path \*

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Create a bucket

✓ Name your bucket

Name: kenalihewan

✓ Choose where to store your data

Location: us-central1 (Iowa)

Location type: Region

✓ Choose a storage class for your data

Default storage class: Standard

✓ Choose how to control access to objects

Public access prevention: On

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✓ Choose how to protect object data

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PROCESSING...

CANCEL



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Data split

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Data split

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5.jpg

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Data split

Default

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11.jpg

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).

gs:// Cloud Storage path \*

BROWSE

?

Please select a folder to upload to.

What happens next?

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CONTINUE

Create a bucket

✓ Name your bucket

Name: kenalibilangan

• Choose where to store your data

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Location type

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Highest availability across largest area

☐ Dual-region

High availability and low latency across 2 regions

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us-central1 (Iowa)

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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

☐ Nearline

Best for backups and data accessed less than once a month

☐ Coldline

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

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GitHub - ahyarmuawwal/AutoM

Course: Praktikum Cloud Comp

console.cloud.google.com/vertex-ai/locations/us-central1/datasets/123608196706205696;annotationSetId=757020352793542656/import?hl=en&project=capable-gasket-402301

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ANALYZE

Upload images from your computer

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

0.jpg

1 file

X

Data split

Default

?

1.jpg

1 file

X

Data split

Default

?

2.jpg

1 file

X

Data split

Default

?

3.jpg

1 file

X

Data split

Default

?

4.jpg

1 file

X

Data split

Default

?

5.jpg

1 file

X

Data split

Default

?

11.jpg

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).

gs:// Cloud Storage path \*

BROWSE

?

Please select a folder to upload to.

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

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 ?

☒ Google-managed encryption key

No configuration required

☐ Customer-managed encryption key (CMEK)

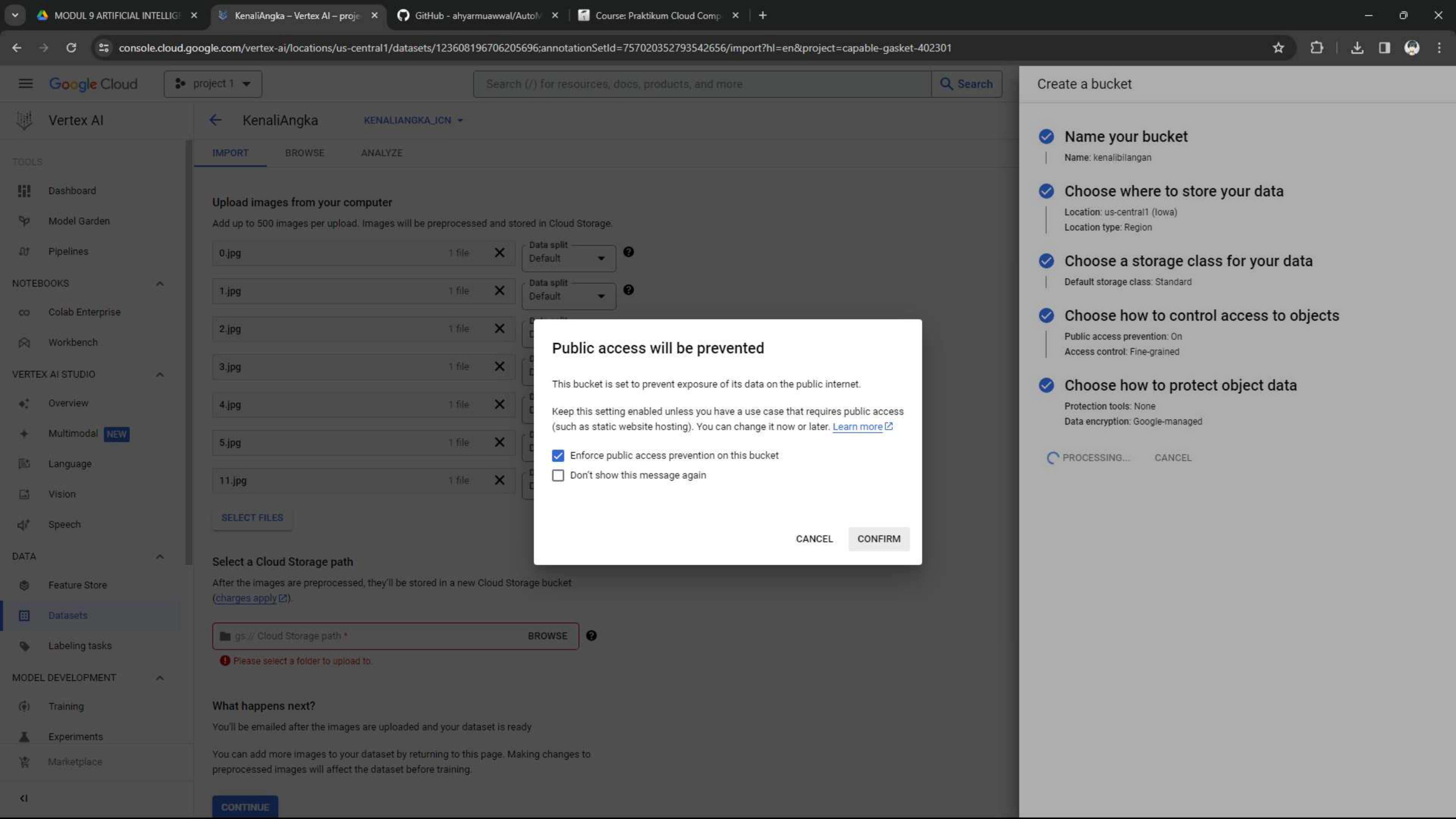
Manage via [Google Cloud Key Management Service](#)

SHOW LESS

CREATE

CANCEL





### Public access will be prevented

This bucket is set to prevent exposure of its data on the public internet.

Keep this setting enabled unless you have a use case that requires public access (such as static website hosting). You can change it now or later. [Learn more](#)

- ☒ Enforce public access prevention on this bucket
- ☐ Don't show this message again

CANCEL

CONFIRM

### Create a bucket

#### ✓ Name your bucket

Name: kenalibilangan

#### ✓ Choose where to store your data

Location: us-central1 (Iowa)

Location type: Region

#### ✓ Choose a storage class for your data

Default storage class: Standard

#### ✓ Choose how to control access to objects

Public access prevention: On

Access control: Fine-grained

#### ✓ Choose how to protect object data

Protection tools: None

Data encryption: Google-managed

PROCESSING...

CANCEL

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0.jpg

1 file

X

Data split

Default

?

1.jpg

1 file

X

Data split

Default

?

2.jpg

1 file

X

Data split

Default

?

3.jpg

1 file

X

Data split

Default

?

4.jpg

1 file

X

Data split

Default

?

5.jpg

1 file

X

Data split

Default

?

11.jpg

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

?

What happens next?

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CONTINUE

Created bucket kenalibilangan



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Labels

All 7

Labeled 0

Unlabeled 7

Filter


+


ADD NEW LABEL


Images


Filter Enter label or property name


Select all


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

Uploads and project 1 operations

5.jpg

Complete

11.jpg

Complete

4.jpg

Complete

3.jpg

Complete

2.jpg

Complete

Created bucket kenalibilangan

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Search

1

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Labels

All 7

Labeled 0

Unlabeled 7

Filter

dua 0

empat 0

no 0

satu 0

tiga 0

ADD NEW LABEL

Images

Filter

Select all

No labels

No labels

No labels

No labels

No labels

No labels

No labels

Add new label

Label

lima

CANCEL

DONE

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Training jobs and models

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Uploads and project 1 operations

5.jpg

Complete

11.jpg

Complete

4.jpg

Complete

3.jpg

Complete

2.jpg

Complete



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1

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Labels

All 7

Labeled 0

Unlabeled 7

Filter

dua 0

empat 0

lima 0

nol 0

satu 0

tiga 0

ADD NEW LABEL

Images

1 selected

ASSIGN LABELS

ASSIGN ML USE

DELETE

Select all

No labels

No labels

No labels

No labels

No labels

No labels

No labels

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Uploads and project 1 operations

5.jpg

Complete

11.jpg

Complete

4.jpg

Complete

3.jpg

Complete

2.jpg

Complete





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TRAIN NEW MODEL

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Labels

All 7

Labeled 7

Unlabeled 0

Filter

dua 1

empat 1

lima 1

nol 1

satu 1

tiga 2

ADD NEW LABEL

Images

Filter

Select all

lima

empat

tiga

dua

tiga

nol

satu

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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

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

CREATE LABELING TASK

Uploads and project 1 operations

5.jpg

Complete

11.jpg

Complete

4.jpg

Complete

3.jpg

Complete

2.jpg

Complete

1 image updated

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Elastic Heart feat. Shia LaBe

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All 71

Labeled 71

Unlabeled 0

Filter

dua 12

empat 11

lima 13

nol 11

satu 13

tiga 11

ADD NEW LABEL

Images

Filter

Enter label or property name

dua

lima

empat

dua

satu

satu

satu

empat

nol

lima

tiga

nol

nol

lima

lima

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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



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Compute and pricing

START TRAINING

CANCEL

Dataset

KenaliAngka

Annotation set

KenaliAngka\_icn

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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Lab

All

Label

Unlab

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dua

empa

lima

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satu

tiga

ADI

Train new model

✓ Training method

✓ Model details

✓ Training options

✓ Explainability (optional)

5 Compute and pricing

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

## Train new model

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



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All

Label

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F

dua

empa

lima

nol

satu

tiga

ADI

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.

KenaliAngka – Vertex AI – projec

+

← → ↺

console.cloud.google.com/vertex-ai/locations/us-central1/datasets/123608196706205696;annotationSetId=757020352793542656/browse...

🔍

🔗

☆

⚙️

🖨️

📄

🔔

?

⋮

Relaunch to update

☰

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📄

🔗

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🔔

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⋮

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Labels

All71

Labeled71

Unlabeled0

Filter

dua12

empat11

lima13

nol11

satu13

tiga11

ADD NEW LABEL

Images

Filter

Enter label or property name

Select all

dua

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

https://console.cloud.google.com/vertex-ai/online-prediction?project=capable-gasket-402301



Model Registry – Vertex AI – pro

console.cloud.google.com/vertex-ai/models?project=capable-gasket-402301

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REFRESH

LEARN

Models are built from your datasets or unmanaged data sources. There are many different types of machine learning models available on Vertex AI, depending on your use case and level of experience with machine learning. [Learn more](#)

Region

us-central1 (Iowa)

Filter

Enter a property name

	Name	Default version	Deployment status	Description	Type	Source	
<input type="checkbox"/>	<a href="#">KenaliAngka</a>	1	—	—	Image classification	AutoML training	

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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https://console.cloud.google.com/vertex-ai/models/locations/us-central1/models/313824807823081472/versions/1/deploy?project=capable-gasket-402301



Vertex AI - project 1 - Google Cloud

console.cloud.google.com/vertex-ai/models/locations/us-central1/models/313824807823081472/versions/1/deploy?project=capable-gas...

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Vector Search

MANAGE

Ray on Vertex AI

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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 \*

KenaliBilangan

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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Define your endpoint

Model settings

DEPLOY

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Model settings

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](#)

New model

KenaliAngka (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

LEARN Tutorial

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Understand key differences between AutoML and custom training.

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Help document

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Creating a model using custom training

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

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Deploy to endpoint

Define your endpoint

Model settings

DEPLOY

CANCEL

Model settings

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](#)

KenaliAngka (Version 1)

Traffic split: 100%

ADD A MODEL

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Kotak Masuk 2.459

Berbintang

Ditunda

Terkirim

Draf 5

Selengkapnya

Label +

angelinenatasya\_2... 3

Moved 2022-09-30... 3

# Vertex AI finished creating endpoint "KenaliBllangan" Kotak Masuk x

Vertex AI <noreply-vertexai@google.com>  
kepada saya

20.56 (1 jam yang lalu) ☆ 😊 ↩ ⋮

Hello Vertex AI Customer,

Vertex AI finished creating endpoint "KenaliBllangan".

Additional Details:

Operation State: Succeeded

Resource Name:

projects/1055928596479/locations/us-central1/endpoints/4377685754780844032

To continue your progress, go back to your endpoint using

<https://console.cloud.google.com/vertex-ai/models/locations/us-central1/models/313824807823081472/versions/1/deploy?project=capable-gasket-402301>

Sincerely,

The Google Cloud AI Team

↩ Balas ➡ Teruskan 😊

Vertex AI - project 1 - Google Cloud

console.cloud.google.com/vertex-ai/models/locations/us-central1/models/313824807823081472/versions/1/deploy?project=capable-gas...

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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	Status	Models	Deployment resource pool	Region
KenaliBilangan	4377685754780844032	Active	1	—	us-central1
KenaliBilangan	8732666594448113664	Deployment failed	0	—	us-central1

Test your model

PREVIEW

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

UPLOAD IMAGE

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Filter

Filter labels

satu	<div></div>	0.000
dua	<div></div>	0.000
empat	<div></div>	0.000
lima	<div></div>	0.000
tiga	<div></div>	0.000
nol	<div></div>	1.000

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10:25 PM 1/9/2024

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AutoML-Vision-Google-Cloud

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