

MODUL 9 ARTIFICIAL INTELLIGENCE X Overview – Vertex AI Vision – p GitHub - ahymuawwal/AutoIV Course: Praktikum Cloud Comp +

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

Google Cloud project 1 Search (/) for resources, docs, products, and more Search

Vertex AI Vision Overview

Overview Application development 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

Now viewing project "project 1" in organization "No organization" X

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

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

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Vertex AI Dashboard LEARN Recommended for you

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- Training
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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 Data labeling

Model Development

Model Garden

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.

Now viewing project "project 1" in organization "No organization"

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

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Vertex AI Datasets + CREATE REFRESH

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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.

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

Region us-central1 (Iowa)

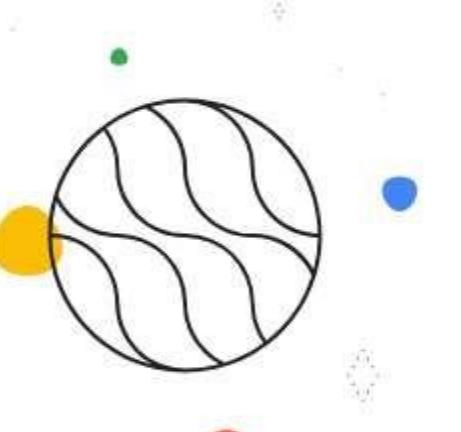
Filter Enter a property name

| 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

Now viewing project "project 1" in organization "No organization"



MODUL 9 ARTIFICIAL INTELLIGENCE X Create dataset – Vertex AI – pro X GitHub - ahymmuawwal/AutoIV X Course: Praktikum Cloud Comp X +

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

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Vertex AI Create dataset

Dataset name * KenaliAngka
Can use up to 128 characters.

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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 Now viewing project "project 1" in organization "No organization" X

Open

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

Search DATASET

Organize New folder

OneDrive

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

Custom Files

Open Cancel

More

Search

Import?hl=en&project=capable-gasket-402301

Upload images from your computer

Upload import files from your computer

Select import files from Cloud Storage

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](#)

Upload images from your computer

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

SELECT FILES

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

Google Cloud project 1

Vertex AI KenaliAngka IMPORT BROWSE AN

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Open

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

Organize New folder

Name Date modified Type Size

A long time ago

| | Date modified | Type | Size |
|---------------------------|------------------|----------|-------|
| 0 | 09/06/2020 10:14 | JPG File | 79 KB |
| 1 | 09/06/2020 10:14 | JPG File | 72 KB |
| 2 | 09/06/2020 10:14 | JPG File | 80 KB |
| 3 | 09/06/2020 10:14 | JPG File | 82 KB |
| 4 | 09/06/2020 10:14 | JPG File | 87 KB |
| 5 | 09/06/2020 10:14 | JPG File | 90 KB |
| 11 | 09/06/2020 10:14 | JPG File | 74 KB |
| photo_2020-06-08_11-37-28 | 09/06/2020 10:14 | JPG File | 70 KB |
| photo_2020-06-08_11-37-30 | 09/06/2020 10:14 | JPG File | 69 KB |
| photo_2020-06-08_11-37-32 | 09/06/2020 10:14 | JPG File | 70 KB |

File name: "0" "1" "2" "3" "4" "5" "11" Custom Files Open Cancel

Add images to your dataset

Before you begin, review the data guide optimized for the best results. Support ICO:

[VIEW DATA GUIDE](#)

Select an import method

- Upload images: Recommended if you have images stored on your computer.
- Import files: Recommended if you have Cloud Storage URIs to your images in 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.

SELECT FILES

Please pick at least one file.

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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.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

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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.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

- 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

Create new bucket

SELECT CANCEL

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

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Import images from your computer

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

- 0.jpg 1 file Data split Default
- 1.jpg 1 file Data split Default
- 2.jpg 1 file Data split Default
- 3.jpg 1 file Data split Default
- 4.jpg 1 file Data split Default
- 5.jpg 1 file Data split Default
- 11.jpg 1 file 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

- 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

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.jpg 1 file Data split Default
- 1.jpg 1 file Data split Default
- 2.jpg 1 file Data split Default
- 3.jpg 1 file Data split Default
- 4.jpg 1 file Data split Default
- 5.jpg 1 file Data split Default
- 11.jpg 1 file 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

Autoclass [?](#)
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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

CREATE CANCEL

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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.jpg 1 file Data split Default 1. Data split Default 2. Data split Default 3. Data split Default 4. Data split Default 5. Data split Default 11.jpg

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

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

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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SELECT FILES CANCEL CONFIRM

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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.

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Create a bucket

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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](#)).

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

Create a bucket

Name your bucket

Name: kenalibilangan

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](#)

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- 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

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

Google Cloud project 1 Search (/) for resources, docs, products, and more Search

Vertex AI KenaliAngka KENALIANGKA_JCN IMPORT BROWSE ANALYZE

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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.jpg 1 file Data split Default
- 1.jpg 1 file Data split Default
- 2.jpg 1 file Data split Default
- 3.jpg 1 file Data split Default
- 4.jpg 1 file Data split Default
- 5.jpg 1 file Data split Default
- 11.jpg 1 file 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

MODUL 9 ARTIFICIAL INTELLIGENCE X KenaliAngka – Vertex AI – project X GitHub - ahymuawwal/AutoIV X Course: Praktikum Cloud Comp X +

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.jpg 1 file Data split Default 1. Data split Default 2. 2.jpg 1 file 3.jpg 1 file 4.jpg 1 file 5.jpg 1 file 11.jpg 1 file

SELECT FILES

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

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

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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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.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?
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 Created bucket kenalibilangan X

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

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Vertex AI KenaliAngka KENALIANGKA_ICN TRAIN NEW MODEL

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Labels Images Related resources

All 7 Training jobs and models

Labeled 0 Use this dataset and annotation set to train a new machine learning model with AutoML or custom code

Unlabeled 7

Filter Select all TRAIN NEW MODEL

ADD NEW LABEL

Images

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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Created bucket kenalibilangan

Uploads and project 1 operations

| File | Status |
|--------|----------|
| 5.jpg | Complete |
| 11.jpg | Complete |
| 4.jpg | Complete |
| 3.jpg | Complete |
| 2.jpg | Complete |

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

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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

Images

Filter Enter label or property name

Select all

Labels

| Category | Label | Count |
|-----------|-----------|-------|
| All | All | 7 |
| Labeled | Labeled | 0 |
| Unlabeled | Unlabeled | 7 |
| Filter | dua | 0 |
| | empat | 0 |
| | nol | 0 |
| | satu | 0 |
| | tiga | 0 |

Add new label

Label **DONE**

CANCEL

No labels

No labels

No labels

No labels

Uploads and project 1 operations

| File | Status |
|--------|----------|
| 5.jpg | Complete |
| 11.jpg | Complete |
| 4.jpg | Complete |
| 3.jpg | Complete |
| 2.jpg | Complete |

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

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Unlabeled 7

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Images

1 selected ASSIGN LABELS ASSIGN ML USE DELETE X

Select all

dua empat lima nol satu tiga

ADD NEW LABEL

No labels No labels No labels No labels No labels

No labels No labels

CREATE LABELING TASK

Uploads and project 1 operations

| ✓ | 5.jpg | Complete |
|---|--------|----------|
| ✓ | 11.jpg | Complete |
| ✓ | 4.jpg | Complete |
| ✓ | 3.jpg | Complete |
| ✓ | 2.jpg | Complete |

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Labels Images

All 7 Labeled 0 Unlabeled 7

Filter dua empat lima nol satu tiga

1 selected ASSIGN LABELS ASSIGN ML USE DELETE X

Select all

No labels No labels No labels No labels No labels

No labels No labels

ADD NEW LABEL

Assign Labels

Filter Filter labels

dua
empat
 lima
nol
satu
tiga

SAVE CANCEL

Upload

5.j
11.j
4.j
3.j
2.j

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Labeled 7 Use this dataset and annotation set to train a new machine learning model with AutoML or custom code

Unlabeled 0

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1 image updated

Images

Filter Enter label or property name

Select all

dua empat lima nol satu tiga

lima empat tiga dua tiga

nol satu

ADD NEW LABEL

Uploads and project 1 operations

| 5.jpg | Complete |
|--------|----------|
| 11.jpg | Complete |
| 4.jpg | Complete |
| 3.jpg | Complete |
| 2.jpg | Complete |

MODUL 9 ARTIFICIAL INTELLIGENCE | KenaliAngka – Vertex AI – project | kenalihewan – Bucket details – | GitHub - ahymuawwal/AutoML | Course: Praktikum Cloud Comp | Elastic Heart feat. Shia LaBe | +

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Labels Images Related resources

All 71 Training jobs and models
Labeled 71 Use this dataset and annotation set to train a new machine learning model with AutoML or custom code
Unlabeled 0

Filter **TRAIN NEW MODEL**

dua lima empat dua satu

dua empat lima nol satu tiga

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

ADD NEW LABEL

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Images showing hand gestures for numbers 0-5: dua, lima, empat, dua, satu, dua, empat, lima, nol, satu, tiga, dua, nol, nol, lima, lima, tiga, nol, lima, lima, dua, dua, dua, nol, dua, tiga.

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

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Train new model

1 Training method

2 Model details

3 Training options

4 Compute and pricing

Dataset: KenaliAngka

Annotation set: KenaliAngka.lcn

Objective: Image classification (Multi-label)

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

START TRAINING CANCEL

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

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

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Train new model

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 *

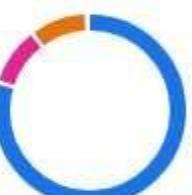
Description

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 % Validation % Test %



- 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

CONTINUE

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

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Train new model

Training method

Model details

Training options

Explainability (optional)

Compute and pricing

START TRAINING CANCEL

Goal Accuracy Latency

| Goal | Accuracy | Latency |
|-----------------------|----------|---------------|
| Higher accuracy (new) | Higher | 200ms - 300ms |
| 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

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

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Train new model

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](#)

Training method

Model details

Training options

Explainability (optional)

Generate explainable bitmaps for each image in the test set

CONTINUE

START TRAINING CANCEL

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

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Train new model

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.

START TRAINING CANCEL

KenaliAngka – Vertex AI – project

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

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BROWSE ANALYZE

Labels Images Related resources

All 71 Filter Enter label or property name

Labeled 71

Unlabeled 0

Select all

dua 12

empat 11

lima 13

nol 11

satu 13

tiga 11

ADD NEW LABEL

dua

TRAIN NEW MODEL

Training jobs and models

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

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

Relaunch to update

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Vertex AI Model Registry + CREATE IMPORT REFRESH LEARN

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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

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)

| Name | Default version | Deployment status | Description | Type | Source |
|-------------|-----------------|-------------------|-------------|----------------------|-----------------|
| KenaliAngka | 1 | - | - | Image classification | AutoML training |

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

Relaunch to update

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Vertex AI KenaliAngka Version 1 VIEW DATASET EXPORT

EVALUATE DEPLOY & TEST BATCH PREDICT VERSION DETAILS

Labeling tasks

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RECOMMENDED FOR YOU

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Understand key differences between AutoML and custom training.

Training AutoML models

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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

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 | Monitoring | Most recent monitoring job |
|---|----|--------|--------|--------------------------|--------|------------|----------------------------|
| No active endpoints containing this model | | | | | | | |

Test your model PREVIEW

In order to test your model, you will need to deploy it first. [Pricing guide](#)

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

← → C https://console.cloud.google.com/vertex-ai/models/locations/us-central1/models/313824807823081472/versions/1/deploy?project=capable-gas... Relaunch to update :

Google Cloud Vertex AI Labeling tasks MODEL DEVELOPMENT Training Experiments Metadata DEPLOY AND USE Model Registry Online prediction Batch predictions Vector Search MANAGE Ray on Vertex AI Marketplace

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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Relaunch to update

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Deploy to endpoint

1 Define your endpoint

2 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](#)

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

Recommended for you

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Help document

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

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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Help document

Learn where to get support for Vertex AI.

Troubleshooting

Help document

Vertex AI - project 1 - Google C

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

Relaunch to update

Deploy to endpoint

1 Define your endpoint

2 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

LEARN

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Choosing a training method

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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.

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Vertex AI KenaliAngka Version 1 VIEW DATASET EXPORT

EVALUATE DEPLOY & TEST BATCH PREDICT VERSION DETAILS

Labeling tasks

MODEL DEVELOPMENT

- Training
- Experiments
- Metadata

DEPLOY AND USE

- Model Registry
- Online prediction
- Batch predictions
- Vector Search

MANAGE

- Ray on Vertex AI
- Marketplace

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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 | 8732666594448113664 | Deploying model | 0 | — | us-central1 |
| KenaliBilangan | 4377685754780844032 | Deploying model | 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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| Name | ID | Status | Models | Deployment resource pool | Region |
|----------------|---------------------|-------------------|--------|--------------------------|-------------|
| KenaliBilangan | 4377685754780844032 | Active | 1 | — | us-central1 |
| KenaliBilangan | 8732666594448113664 | Deployment failed | 0 | — | us-central1 |

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Marketplace

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EVALUATE DEPLOY & TEST BATCH PREDICT VERSION DETAILS

Test your model PREVIEW

Filter Filter labels

| | |
|--------|-------|
| satu | 0.000 |
| dua | 0.000 |
| empat. | 0.000 |
| lima | 0.000 |
| tiga | 0.000 |
| nol | 1.000 |

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Vertex AI Datasets Labeling tasks MODEL DEVELOPMENT Training Experiments Metadata DEPLOY AND USE Model Registry Online prediction Batch predictions Vector Search MANAGE Marketplace

A screenshot of the Google Cloud Vertex AI interface. The main title is "KenaliAngka" under "Version 1". The top navigation bar includes "VIEW DATASET" and "EXPORT" buttons. Below the navigation is a menu with tabs: "EVALUATE", "DEPLOY & TEST" (which is highlighted in blue), "BATCH PREDICT", and "VERSION DETAILS". A sub-section titled "Test your model" contains a "PREVIEW" button. The preview area shows a photograph of a person's face with their right hand raised, index finger pointing upwards. To the right of the image is a table titled "Filter Filter labels" with the following data:

| Label | Probability |
|-------|-------------|
| satu | 1.000 |
| dua | 0.000 |
| empat | 0.000 |
| lima | 0.000 |
| tiga | 0.000 |
| nol | 0.000 |

The sidebar on the left has sections for "MODEL DEVELOPMENT" (Training, Experiments, Metadata), "DEPLOY AND USE" (Model Registry, Online prediction, Batch predictions, Vector Search), and "MANAGE" (Marketplace). The "Model Registry" item is currently selected. The overall interface is clean with a white background and blue accents for active links.