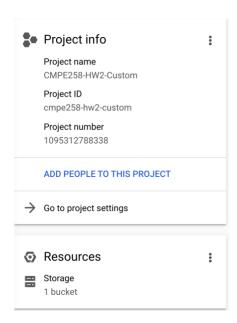
# <u>CMPE 258 – Deep Learning Assignment 2</u>

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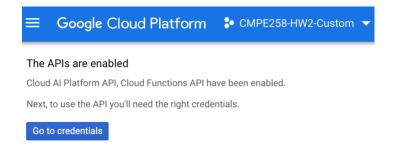
## 4. Hello custom training:

#### **PROJECT SETUP:**

• On the project selector page, created a project named: CMPE258-HW2-Custom



• Enabled the API for the above created project:



• Set up the authentication:

Email	Name ↑	
cmpe258-hw2-custom@appspot.gserviceaccount.com	App Engine default service account	/ <b>i</b>
arpitha-gurumurthy@cmpe258-hw2-custom.iam.gserviceaccount.com	Arpitha Gurumurthy	/ =

## CREATING CLOUD STORAGE BUCKET and downloading sample code:

```
arpitha_gurumurthy@cloudshell:~ (cmpe258-hw2-custom) $ gsutil mb -p cmpe258-hw2-custom -l us-centrall gs://cmpe258-hw2-custom-arpitha
Creating gs://cmpe258-hw2-custom-arpitha/...
arpitha_gurumurthy@cloudshell:~ (cmpe258-hw2-custom) $ gsutil cp gs://cloud-samples-data/ai-platform/hello-custom/hello-custom-sample/vlbetal.tar.gz - | tar -xzv
hello-custom-sample/ebapp/
hello-custom-sample/function/
hello-custom-sample/function/
hello-custom-sample/function/
hello-custom-sample/trainer/
hello-custom-sample/trainer/
hello-custom-sample/function/requirements.txt
hello-custom-sample/function/requirements.txt
hello-custom-sample/webapp/.index.html
hello-custom-sample/webapp/index.html
hello-custom-sample/webapp/index.css
hello-custom-sample/webapp/index.css
hello-custom-sample/webapp/index.css
hello-custom-sample/webapp/index.css
hello-custom-sample/webapp/function-url.js
```

## Uploading training application to cloud storage:

```
arpitha_gurumurthy@cloudshell:-/hello-custom-sample (cmpe258-hw2-custom) python3 setup.py sdist --formats=gztar running sdist running egg info writing hello custom training.egg-info/PKG-INFO writing dependency_links to hello custom training.egg-info/dependency_links.txt writing requirements to hello custom training.egg-info/requires.txt writing top-level names to hello custom training.egg-info/SOURCES.txt' writing manifest file 'hello_custom_training.egg-info/SOURCES.txt' warning: sdist: standard file not found: should have one of README, README.rst, README.txt, README.md

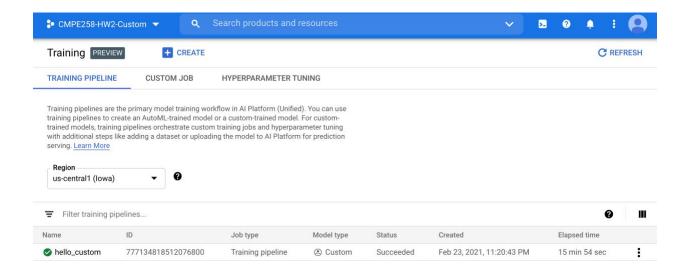
running check
warning: check: missing required meta-data: url

warning: check: missing meta-data: either (author and author_email) or (maintainer and maintainer_email) must be supplied creating hello-custom-training-2.0/hello_custom_training.egg-info creating hello-custom-training-2.0/trainer copying files to hello-custom-training-2.0...
copying setup.py -> hello-custom-training-2.0...
copying hello_custom_training.egg-info/SOURCES.txt -> hello-custom-training-2.0/hello_custom_training-2.0/hello_custom_training-2.0/hello_custom_training-2.0/hello_custom_training-egg-info
copying hello_custom_training.egg-info/SOURCES.txt -> hello-custom-training-2.0/hello_custom_training-egg-info
copying hello_custom_training.egg-info/requires.txt -> hello-custom-training-2.0/hello_custom_training.egg-info
copying hello_custom_training.egg-info/top_level.txt -> hello-custom-training-2.0/hello_custom_training.egg-info
copying hello_custom_training.egg-info/top_level.txt -> hello-custom-training-2.0/hello_custom_training.egg-info
copying trainer/init__py -> hello-custom-training-2.0/trainer
Writing hello-custom-training-2.0/ (and everything under it)
arpitha_gurumurthy@cloudshell:-/hello-custom-sample (cmpe258-hw2-custom);
```

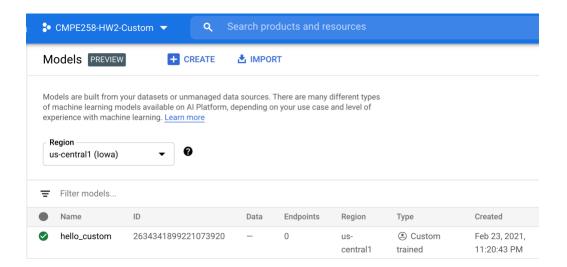
```
arpitha_gurumurthy@cloudshell:~/hello-custom-sample (cmpe258-hw2-custom) gsutil cp dist/hello-custom-training-2.0.tar.gz \
> gs://cmpe258-hw2-custom-arpitha/training/
Copying file://dist/hello-custom-training-2.0.tar.gz [Content-Type=application/x-tar]...
/ [1 files][ 1.9 KiB/ 1.9 KiB]
Operation completed over 1 objects/1.9 KiB.
arpitha_gurumurthy@cloudshell:~/hello-custom-sample (cmpe258-hw2-custom) $ 

| Compe258-hw2-custom | Compe258
```

### **RUNNING A CUSTOM TRAINING PIPELINE:**



#### TRAINED MODEL:



#### **DEPLOYING THE MODEL TO AN ENDPOINT:**

```
Hello Al Platform Customer,
Due to an error, AI Platform was unable to create endpoint "hello_custom".
Additional Details:
Operation State: Failed with errors
Resource Name: projects/1095312788338/locations/us-central1/endpoints/8632098663901954048
Error Messages: Model server terminated: model server container terminated: exit_code: 255
started_at {
    seconds: 1614275367
finished_at {
seconds: 1614275367
```

To view the error on Cloud Console, go back to your endpoint using https://console.cloud.google.com/ai/platform/locations/us-

Sincerely,

The Google Cloud Al Team





**DEPLOY & TEST** 

BATCH PREDICTIONS

MODEL PROPERTIES

#### 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	ID	Models	Region	Last updated	API	Notification	Metadata	Encryption	
0	hello_custom	8632098663901954048	1	us- central1	Feb 25, 2021, 9:54:35 AM	-			Google- managed key	•
0	hello_custom	4011405446219825152	1	us- central1	Feb 24, 2021, 11:03:03 PM	-			Google- managed key	•
0	hello_custom	1962267615766249472	1	us- central1	Feb 24, 2021, 10:40:16 AM	-			Google- managed key	•
0	hello_custom	2628800360617082880	1	us- central1	Feb 24, 2021, 7:19:10 AM	-			Google- managed key	•
0	hello_custom	2731257252139761664	1	us- central1	Feb 24, 2021, 12:18:32 AM	-			Google- managed key	•