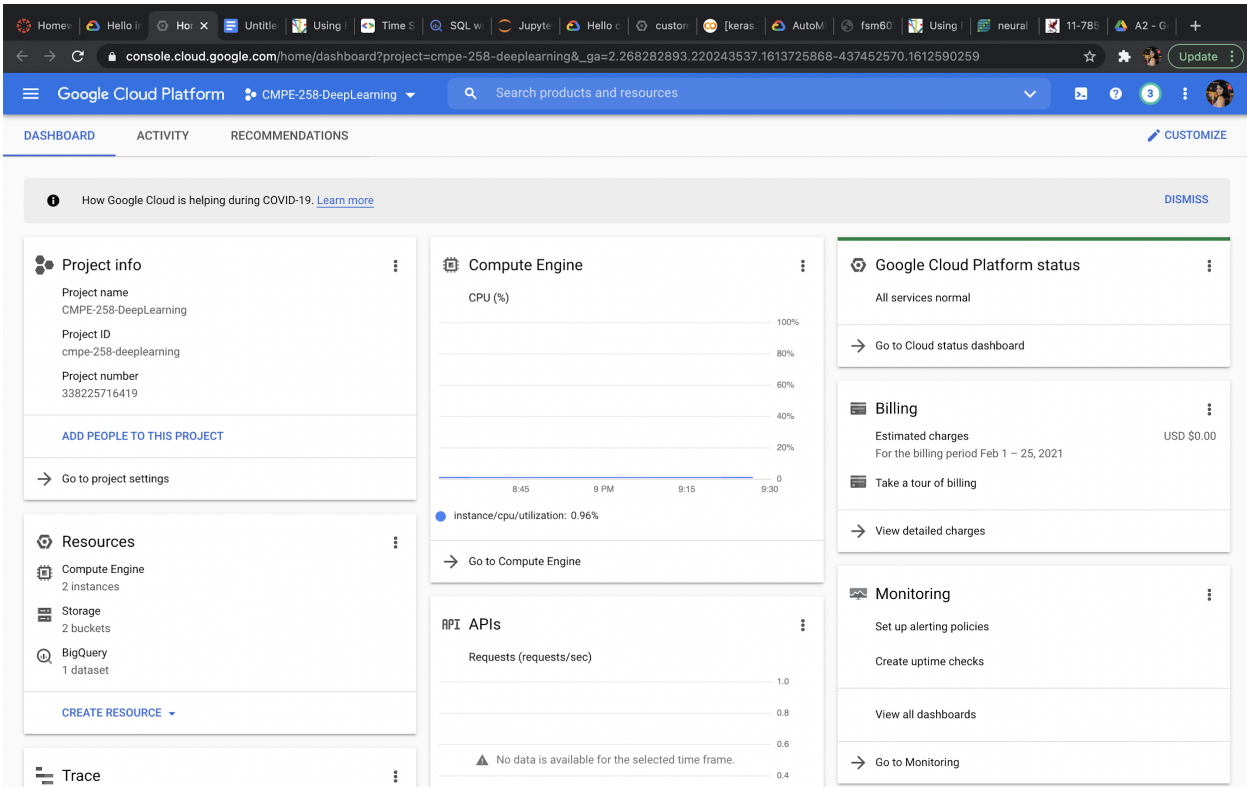
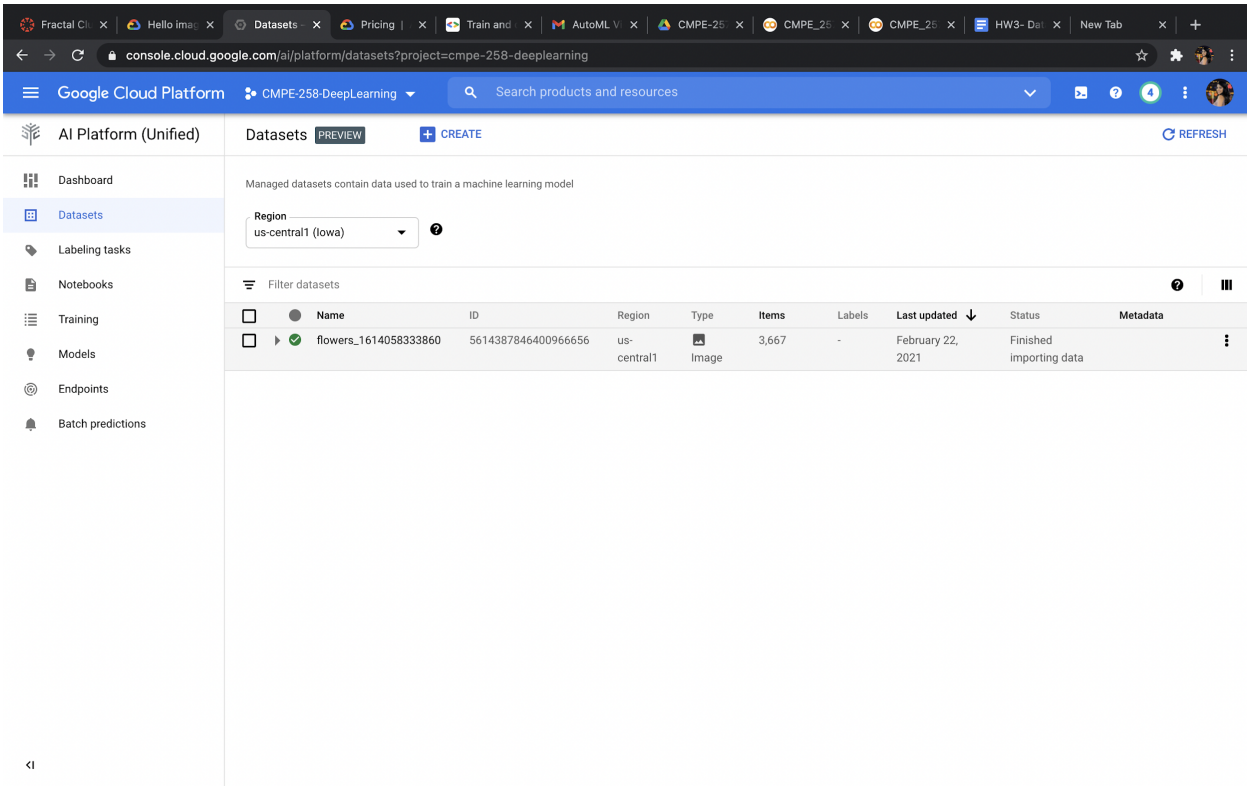
Assignment 2

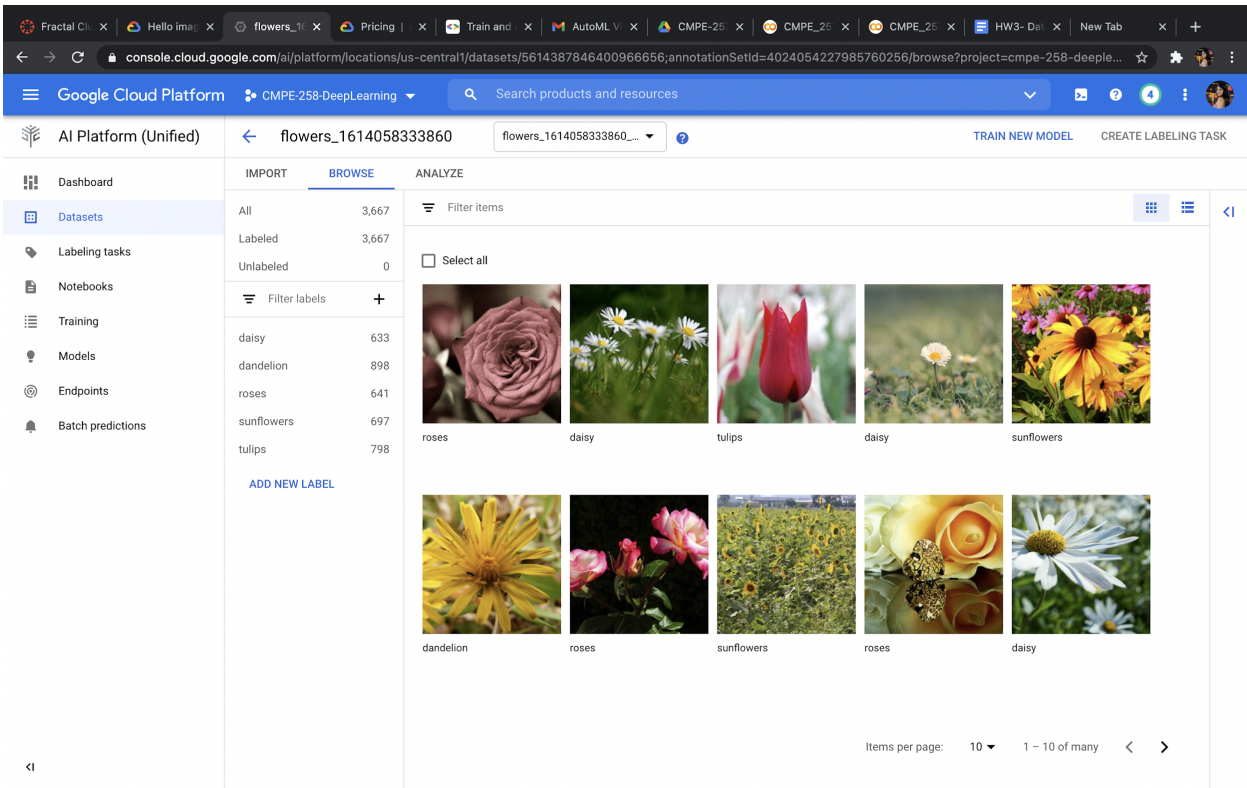
PART 1 - Hello AI Platform (Unified)

- Hello image data - Using flower dataset
  - Setting up project
    - Created Project
    - Set up Billing Account
    - Enabled AI Platform

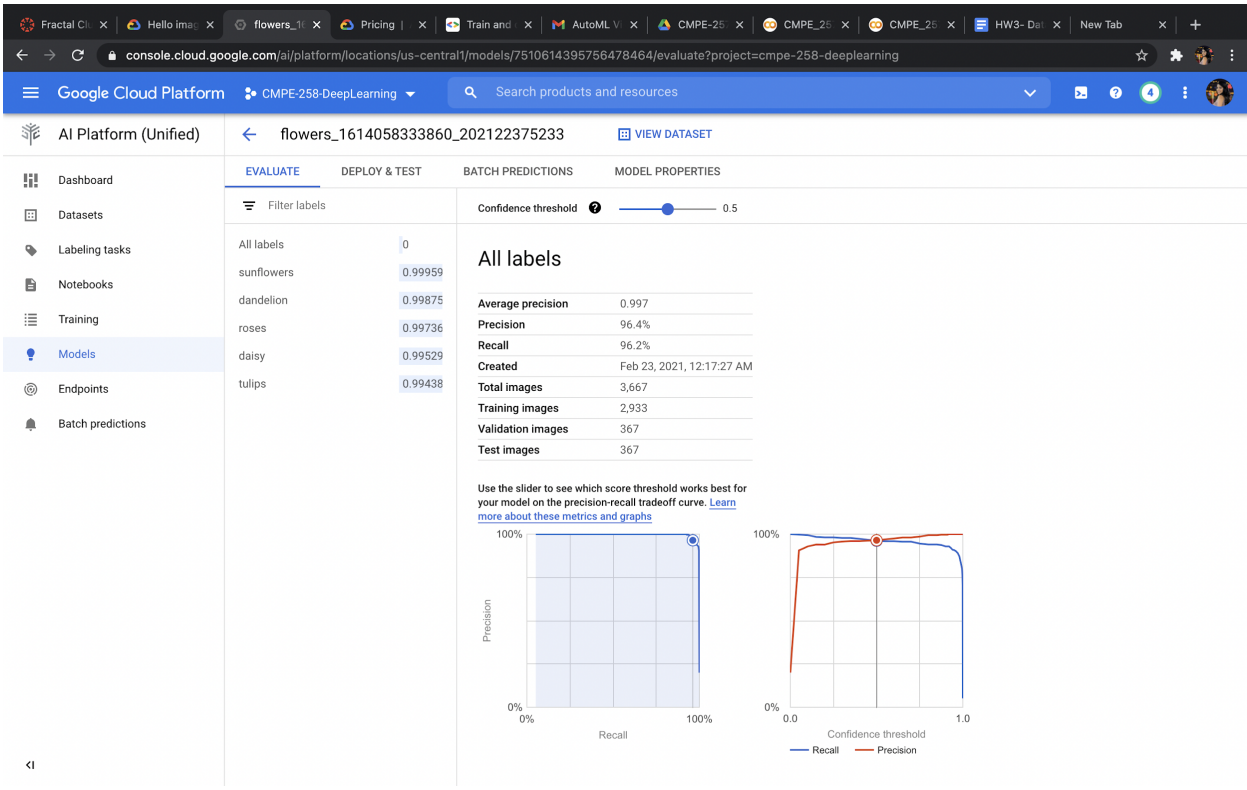


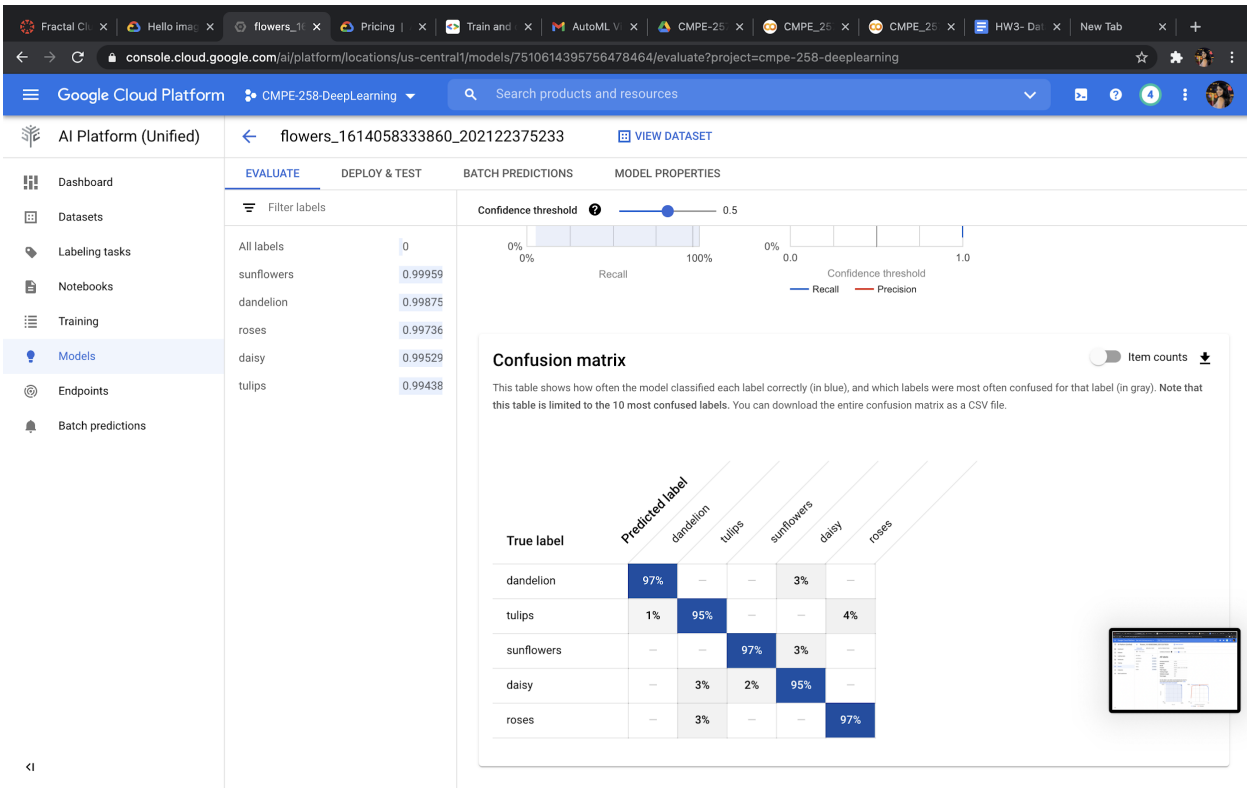
  - Dataset


Fractal Cl
Hello imag
Datasets
Pricing
Train and
AutoML V
CMPE-257
CMPE_25
CMPE_25
HW3- Dat
New Tab
console.cloud.google.com/ai/platform/datasets?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
Datasets
PREVIEW
CREATE
REFRESH
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Managed datasets contain data used to train a machine learning model
Region
us-central1 (Iowa)
Filter datasets
Name
ID
Region
Type
Items
Labels
Last updated
Status
Metadata
flowers_1614058333860
5614387846400966656
us-central1
Image
3,667
-
February 22, 2021
Finished importing data

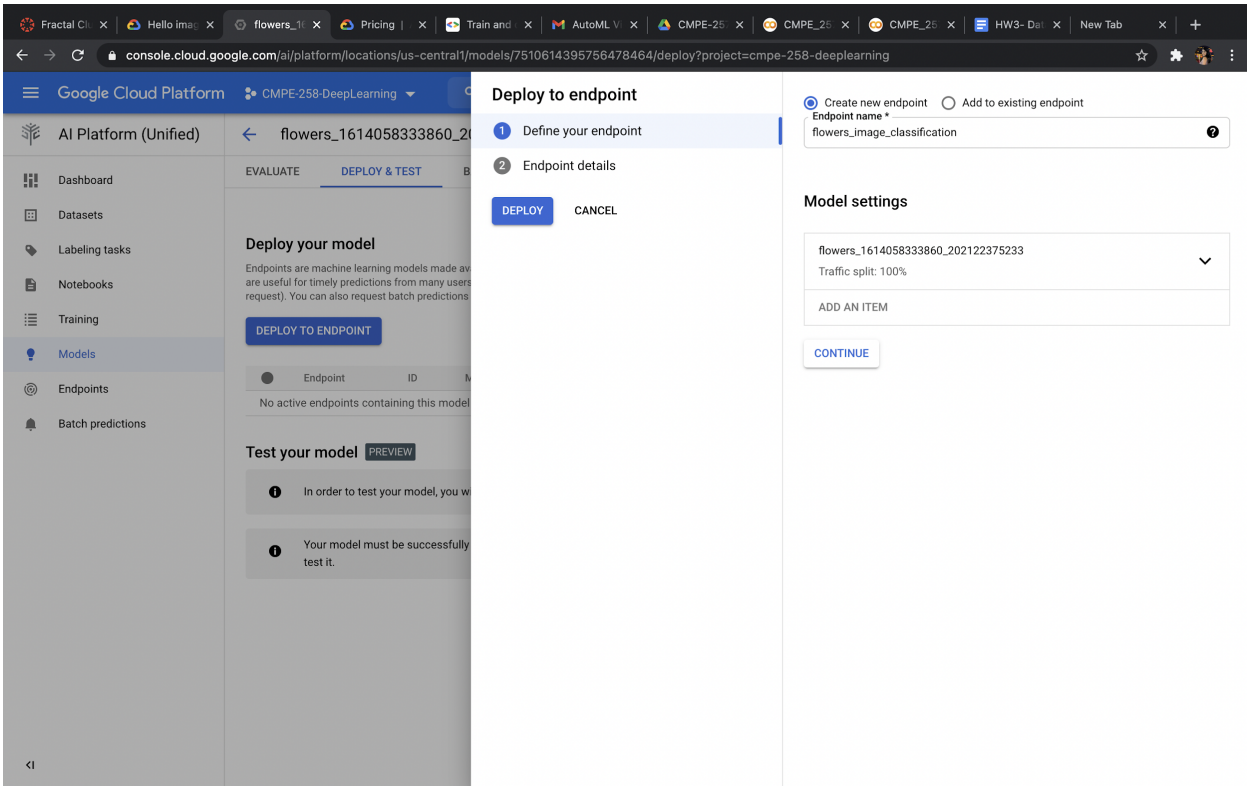

Fractal Cl
Hello imag
flowers_16
Pricing
Train and
AutoML V
CMPE-257
CMPE_25
CMPE_25
HW3- Dat
New Tab
console.cloud.google.com/ai/platform/locations/us-central1/datasets/5614387846400966656;annotationSetId=4024054227985760256/browse?project=cmpe-258-deeple...
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
flowers_1614058333860
flowers_1614058333860_...
TRAIN NEW MODEL
CREATE LABELING TASK
IMPORT
BROWSE
ANALYZE
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
All 3,667
Labeled 3,667
Unlabeled 0
Filter labels
daisy 633
dandelion 898
roses 641
sunflowers 697
tulips 798
ADD NEW LABEL
Filter items
Select all
roses
daisy
tulips
daisy
sunflowers
dandelion
roses
sunflowers
roses
daisy
Items per page:
10
1 – 10 of many

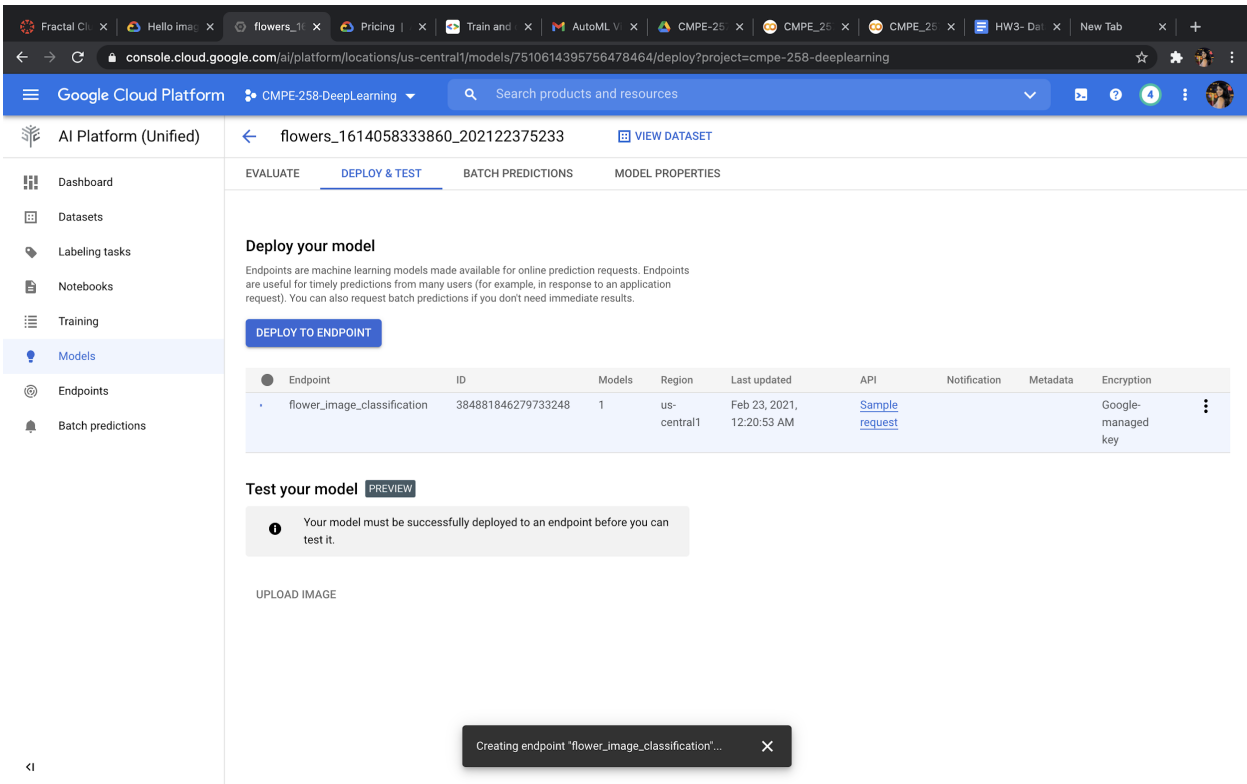
- Train Model



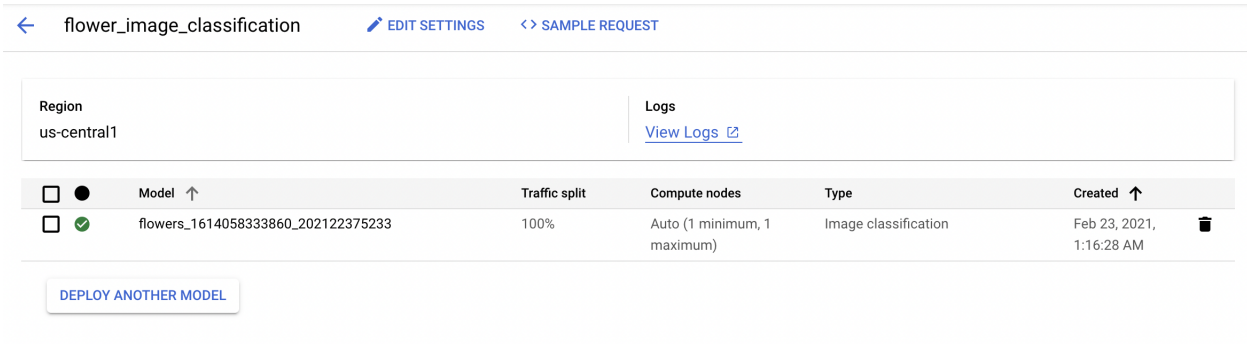


- Deploy Model

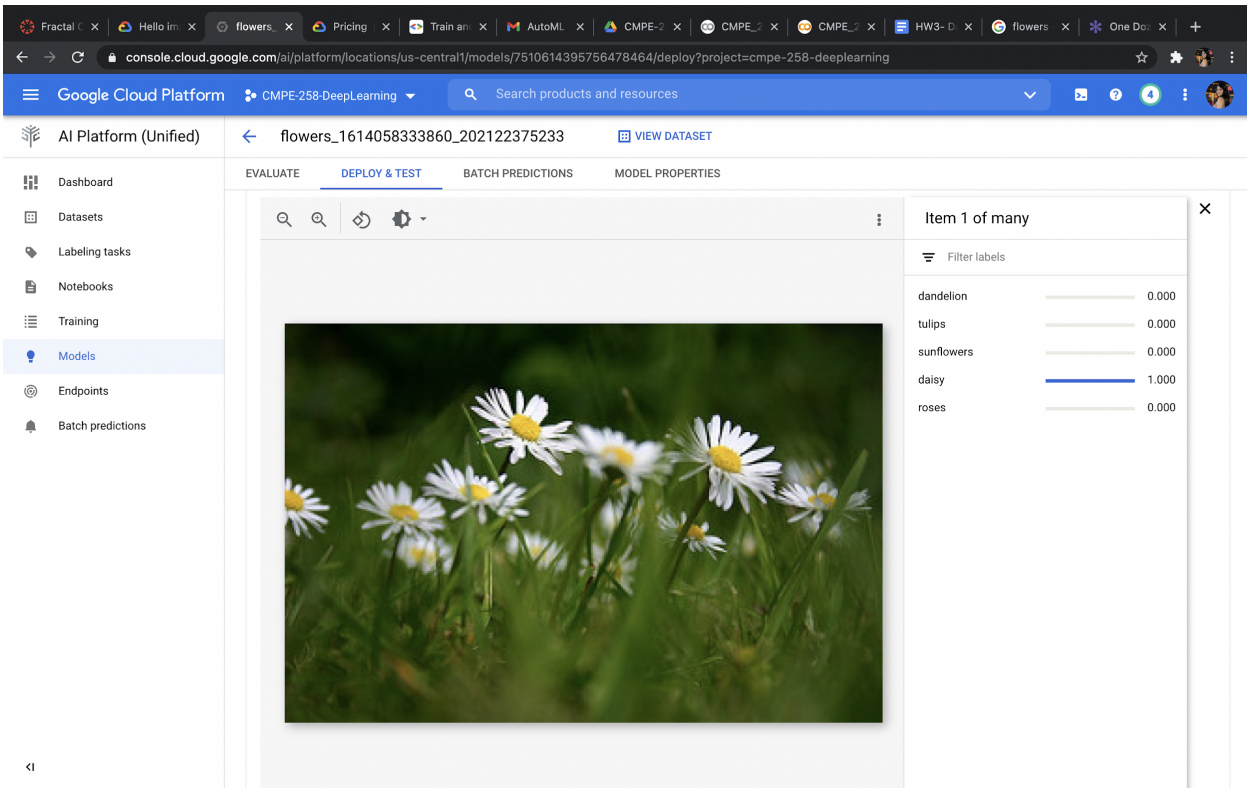

Deploy to endpoint
Define your endpoint
Endpoint details
DEPLOY
CANCEL
Create new endpoint
Add to existing endpoint
Endpoint name *
flowers_image_classification
Model settings
flowers_1614058333860_202122375233
Traffic split: 100%
ADD AN ITEM
CONTINUE
Deploy your model
DEPLOY TO ENDPOINT
Test your model
PREVIEW


flowers_1614058333860_202122375233
VIEW DATASET
EVALUATE
DEPLOY & TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Deploy your model
DEPLOY TO ENDPOINT
Endpoint
ID
Models
Region
Last updated
API
Notification
Metadata
Encryption
flower_image_classification
384881846279733248
1
us-central1
Feb 23, 2021, 12:20:53 AM
Sample request
Google-managed key
Test your model
PREVIEW
Your model must be successfully deployed to an endpoint before you can test it.
UPLOAD IMAGE
Creating endpoint "flower_image_classification"...

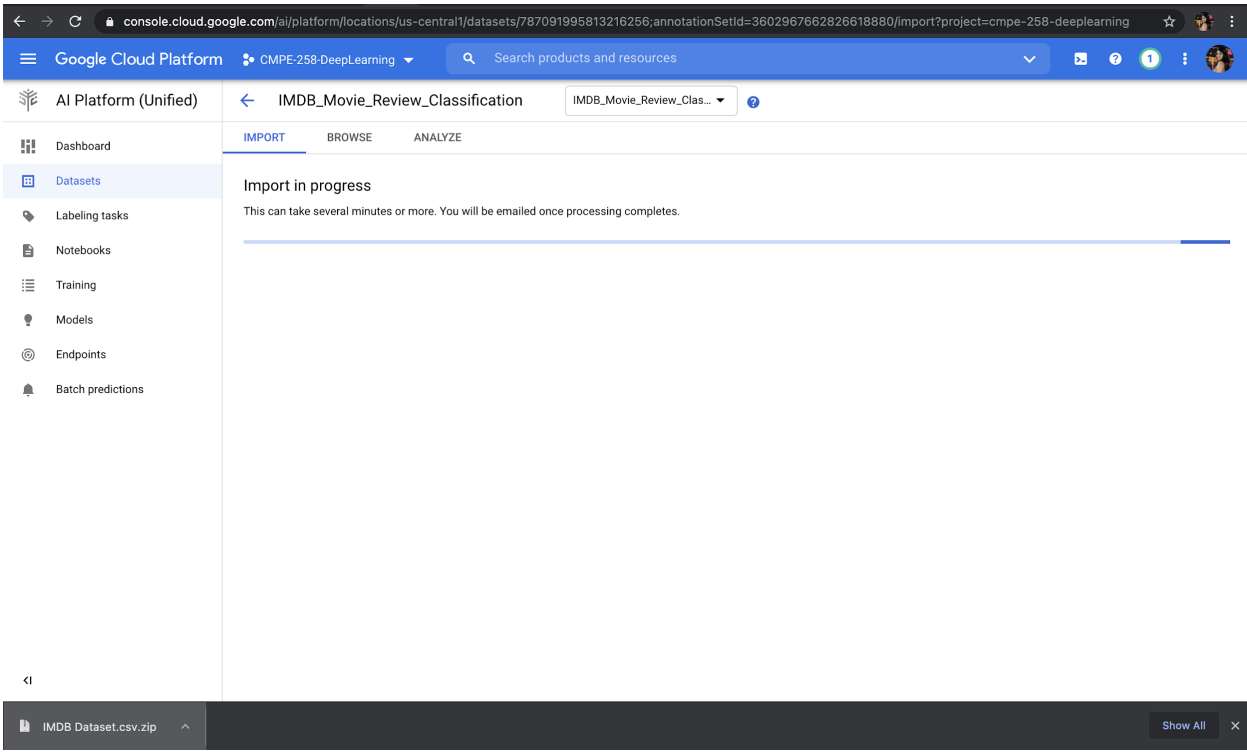
- Endpoints

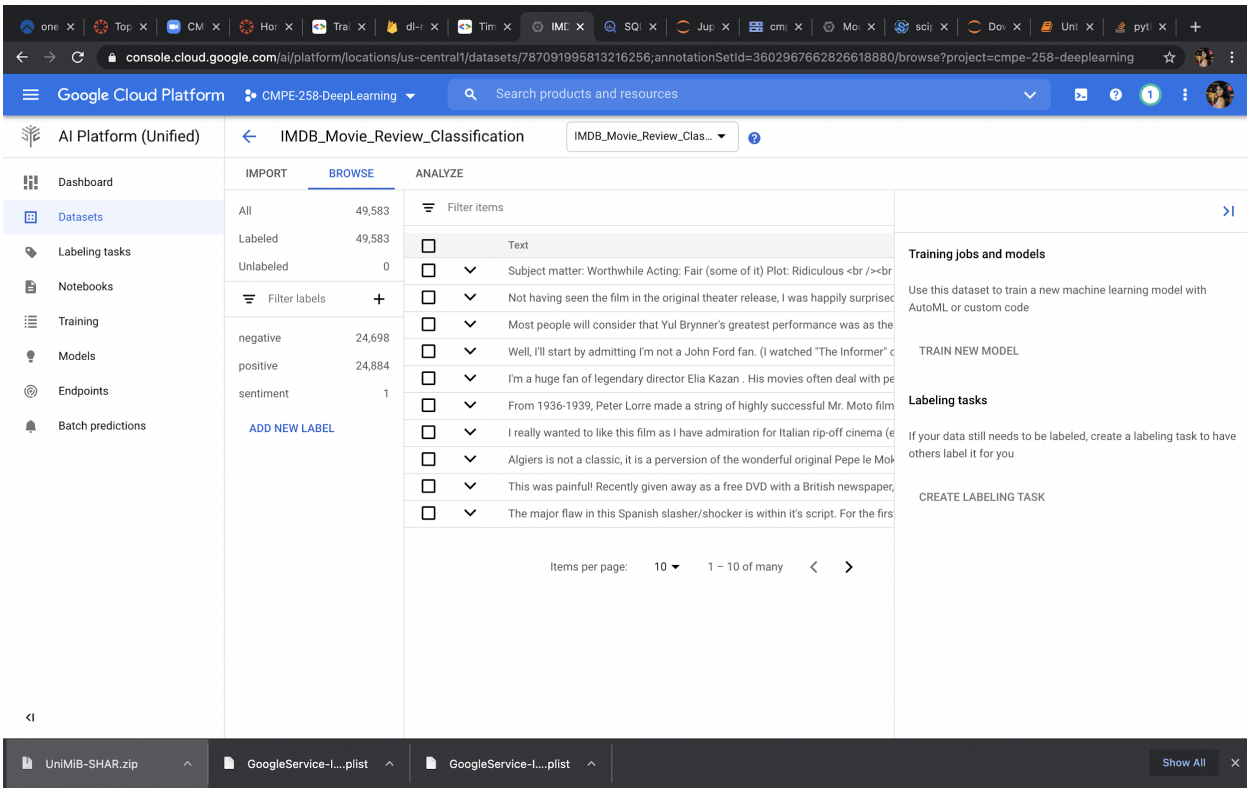


- Test

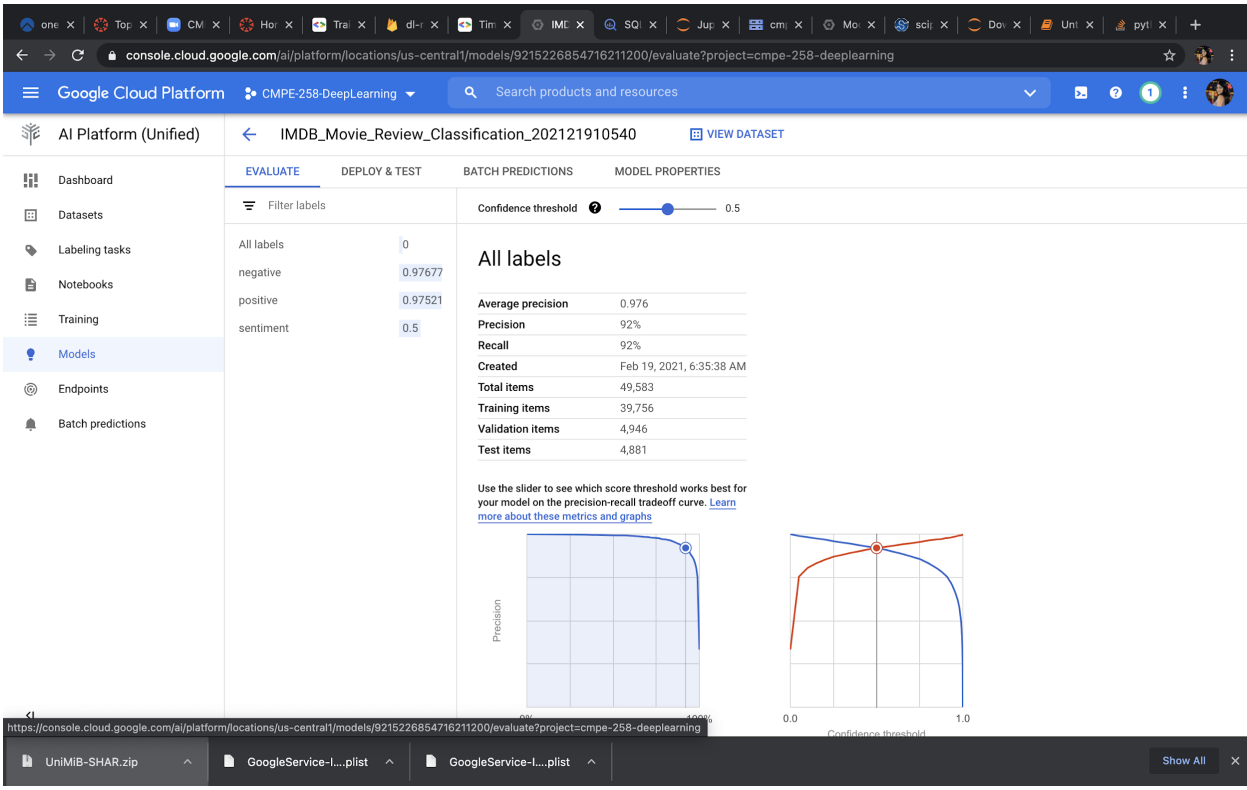


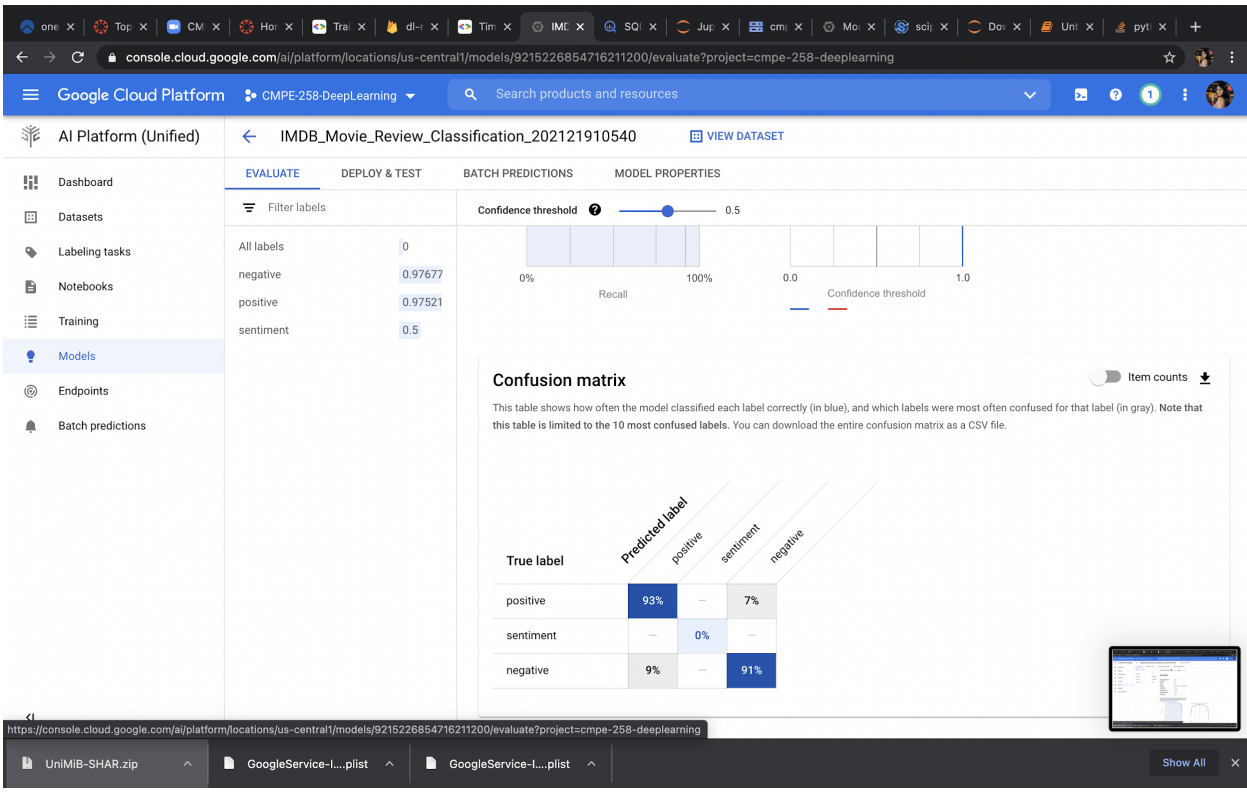
- Hello text data - Using IMDB Movie Review for positive and negative classification
  - Setting up project
  - Dataset


console.cloud.google.com/ai/platform/locations/us-central1/datasets/7870919958132162 56;annotationSetId=3602967662826618880/import?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
IMDB_Movie_Review_Classification
IMDB_Movie_Review_Clas...
IMPORT
BROWSE
ANALYZE
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Import in progress
This can take several minutes or more. You will be emailed once processing completes.
IMDB Dataset.csv.zip
Show All

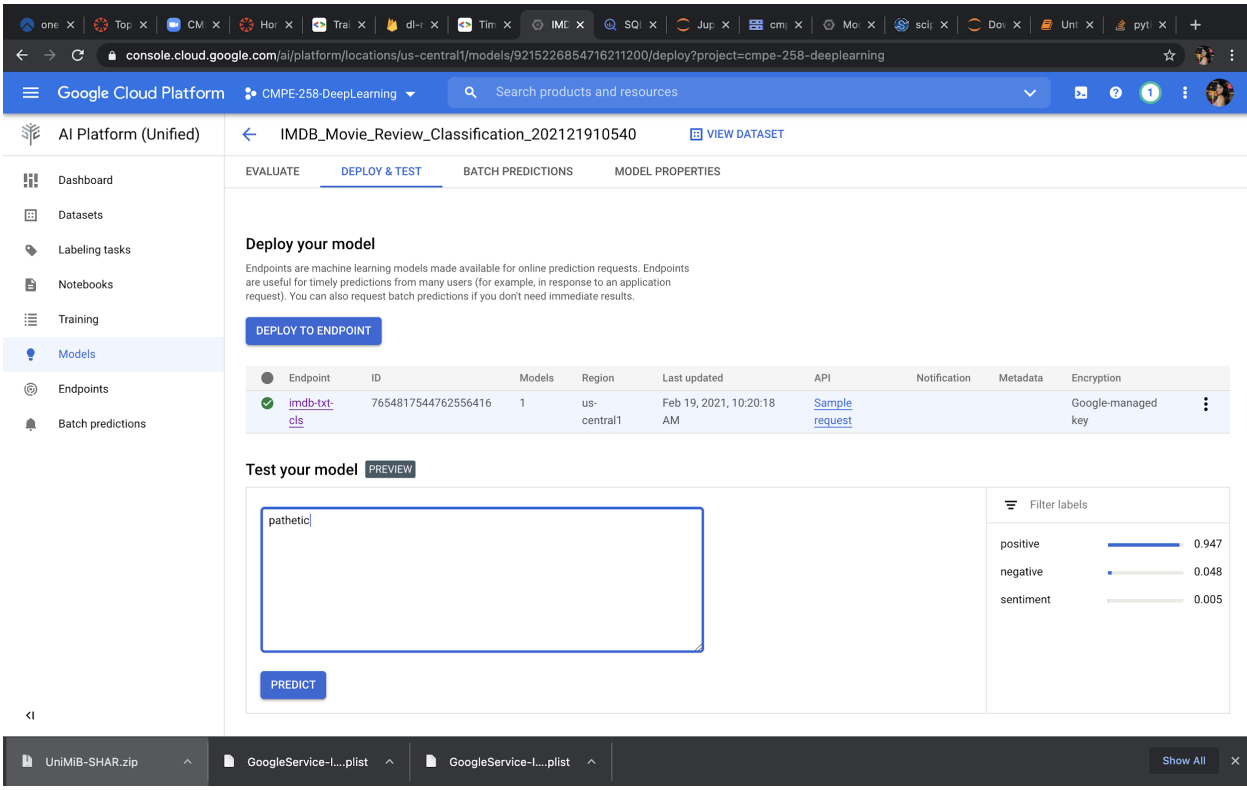

console.cloud.google.com/ai/platform/locations/us-central1/datasets/7870919958132162 56;annotationSetId=3602967662826618880/browse?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
IMDB_Movie_Review_Classification
IMDB_Movie_Review_Clas...
IMPORT
BROWSE
ANALYZE
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
All 49,583
Labeled 49,583
Unlabeled 0
Filter labels
negative 24,698
positive 24,884
sentiment 1
ADD NEW LABEL
Filter items
Text
Subject matter: Worthwhile Acting: Fair (some of it) Plot: Ridiculous
<br
Not having seen the film in the original theater release, I was happily surprised
Most people will consider that Yul Brynner's greatest performance was as the
Well, I'll start by admitting I'm not a John Ford fan. (I watched "The Informer"
I'm a huge fan of legendary director Elia Kazan . His movies often deal with pe
From 1936-1939, Peter Lorre made a string of highly successful Mr. Moto film
I really wanted to like this film as I have admiration for Italian rip-off cinema (e
Algiers is not a classic, it is a perversion of the wonderful original Pepe le Mok
This was painful! Recently given away as a free DVD with a British newspaper,
The major flaw in this Spanish slasher/shocker is within it's script. For the firs
Items per page: 10
1 – 10 of many
Training jobs and models
Use this dataset 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
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All

- Model

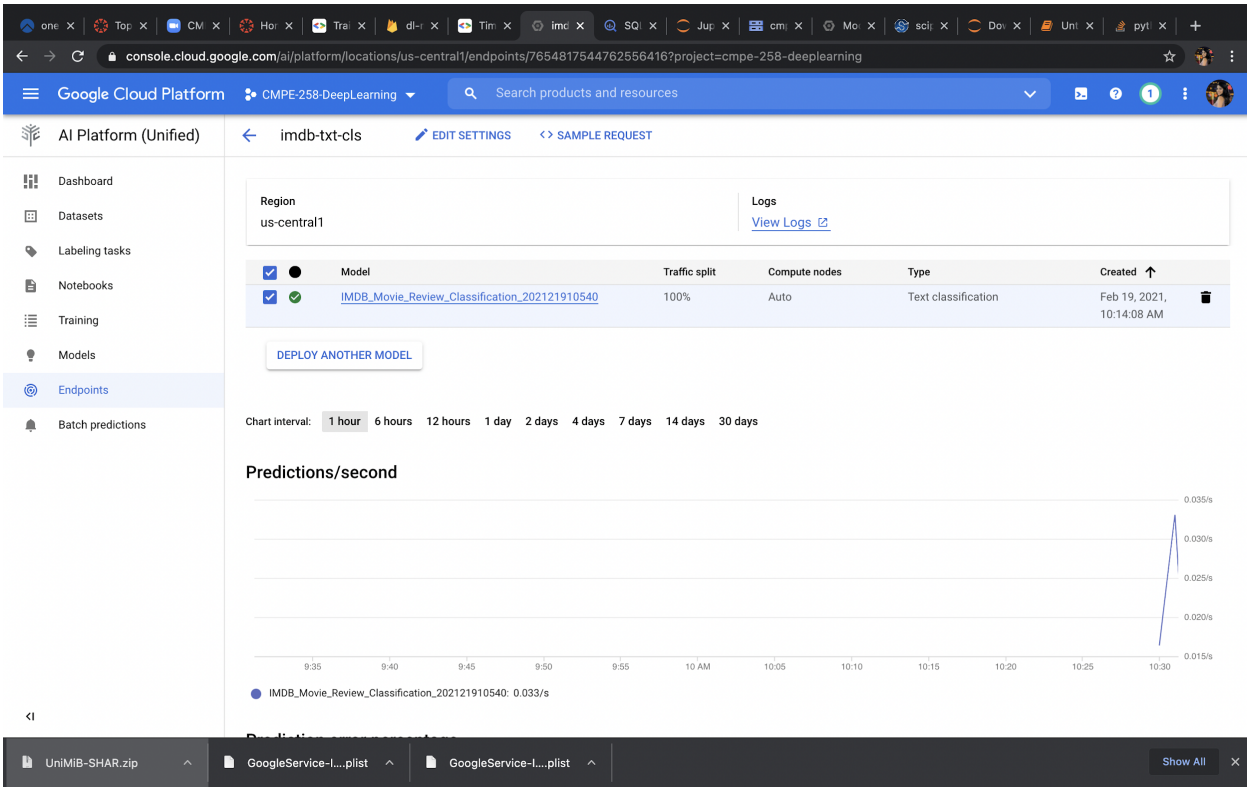

console.cloud.google.com/ai/platform/locations/us-central1/models/9215226854716211200/evaluate?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
IMDB_Movie_Review_Classification_202121910540
VIEW DATASET
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
EVALUATE
DEPLOY & TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Filter labels
Confidence threshold
0.5
All labels 0
negative 0.97677
positive 0.97521
sentiment 0.5
All labels
Average precision 0.976
Precision 92%
Recall 92%
Created Feb 19, 2021, 6:35:38 AM
Total items 49,583
Training items 39,756
Validation items 4,946
Test items 4,881
Use the slider to see which score threshold works best for your model on the precision-recall tradeoff curve. Learn more about these metrics and graphs
Precision
0.0
1.0
Confidence threshold
https://console.cloud.google.com/ai/platform/locations/us-central1/models/9215226854716211200/evaluate?project=cmpe-258-deeplearning
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All


console.cloud.google.com/ai/platform/locations/us-central1/models/9215226854716211200/evaluate?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
IMDB_Movie_Review_Classification_202121910540
VIEW DATASET
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
EVALUATE
DEPLOY & TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Filter labels
Confidence threshold
0.5
All labels 0
negative 0.97677
positive 0.97521
sentiment 0.5
0%
100%
Recall
0.0
1.0
Confidence threshold
Confusion matrix
Item counts
This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.
True label
Predicted label
positive
sentiment
negative
positive 93% – 7%
sentiment – 0% –
negative 9% – 91%
https://console.cloud.google.com/ai/platform/locations/us-central1/models/9215226854716211200/evaluate?project=cmpe-258-deeplearning
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All

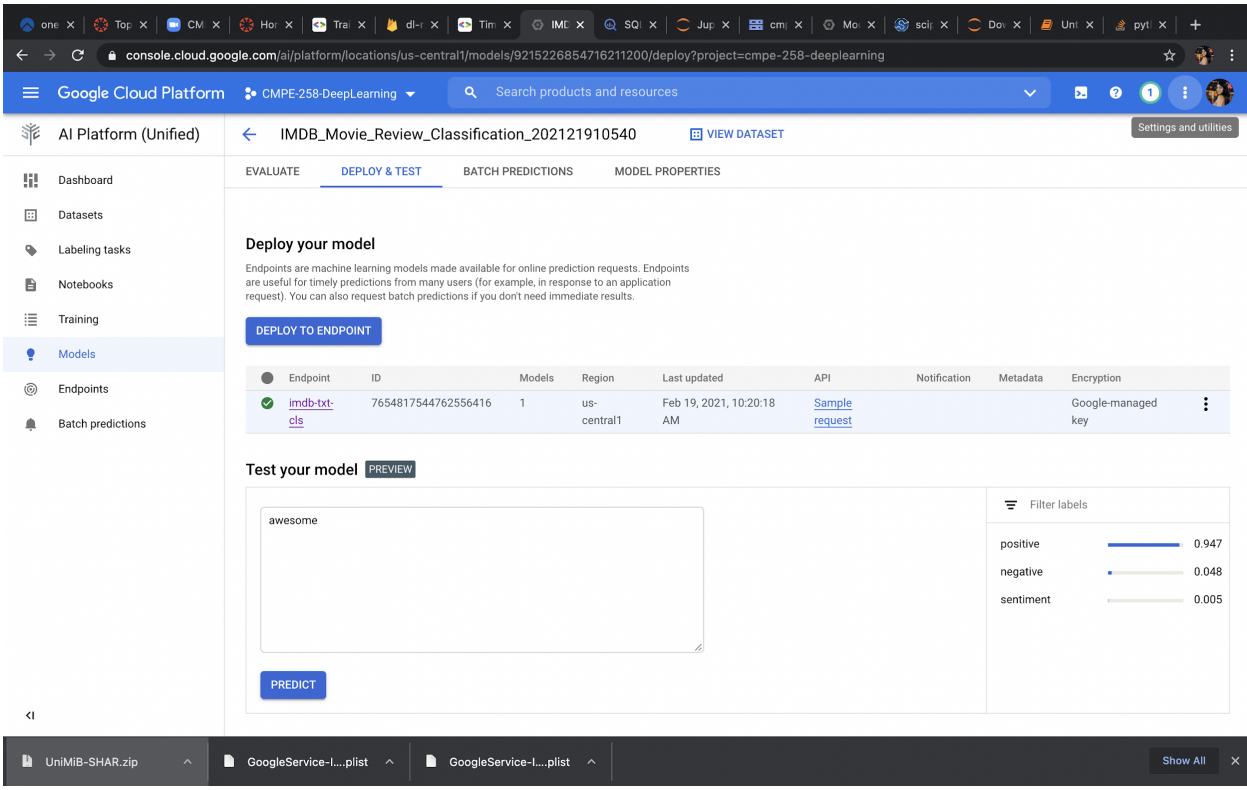
- Deploy



- Endpoint



- Test


console.cloud.google.com/ai/platform/locations/us-central1/models/9215226854716211200/deploy?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
Settings and utilities
AI Platform (Unified)
IMDB_Movie_Review_Classification_202121910540
VIEW DATASET
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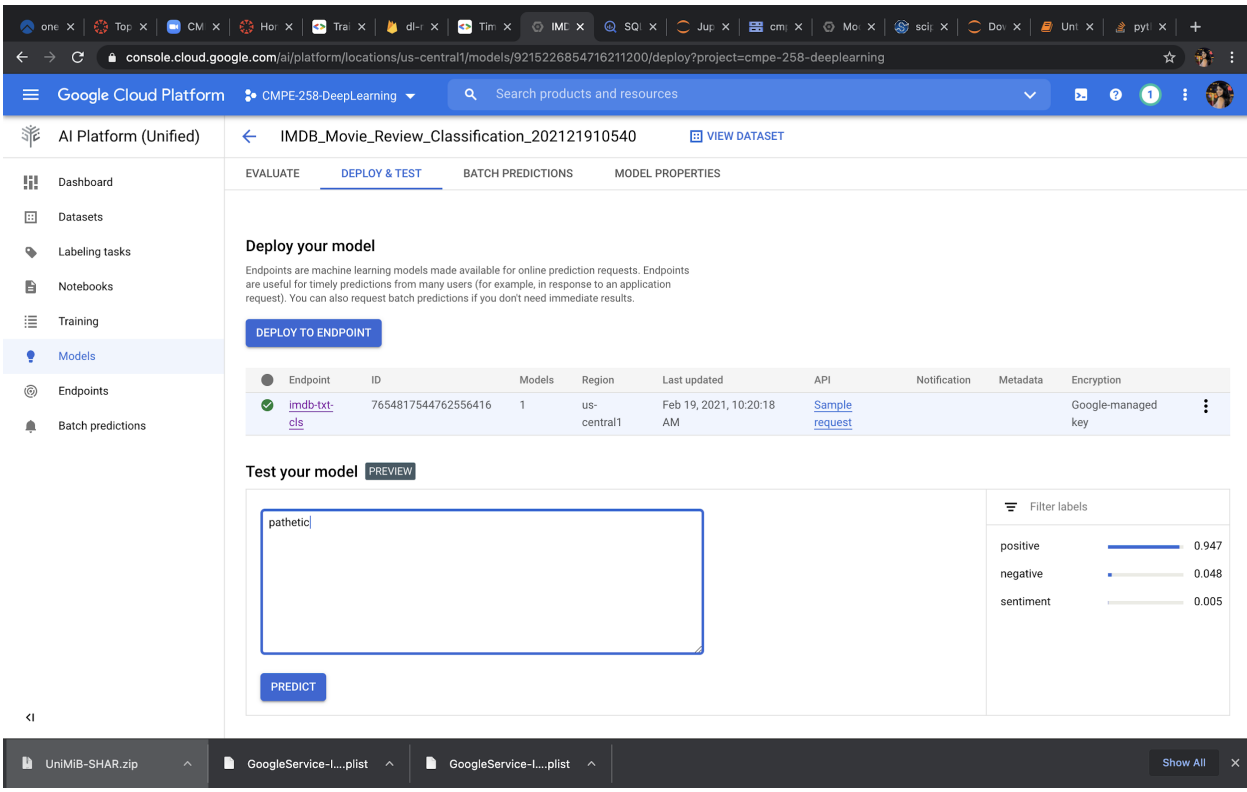
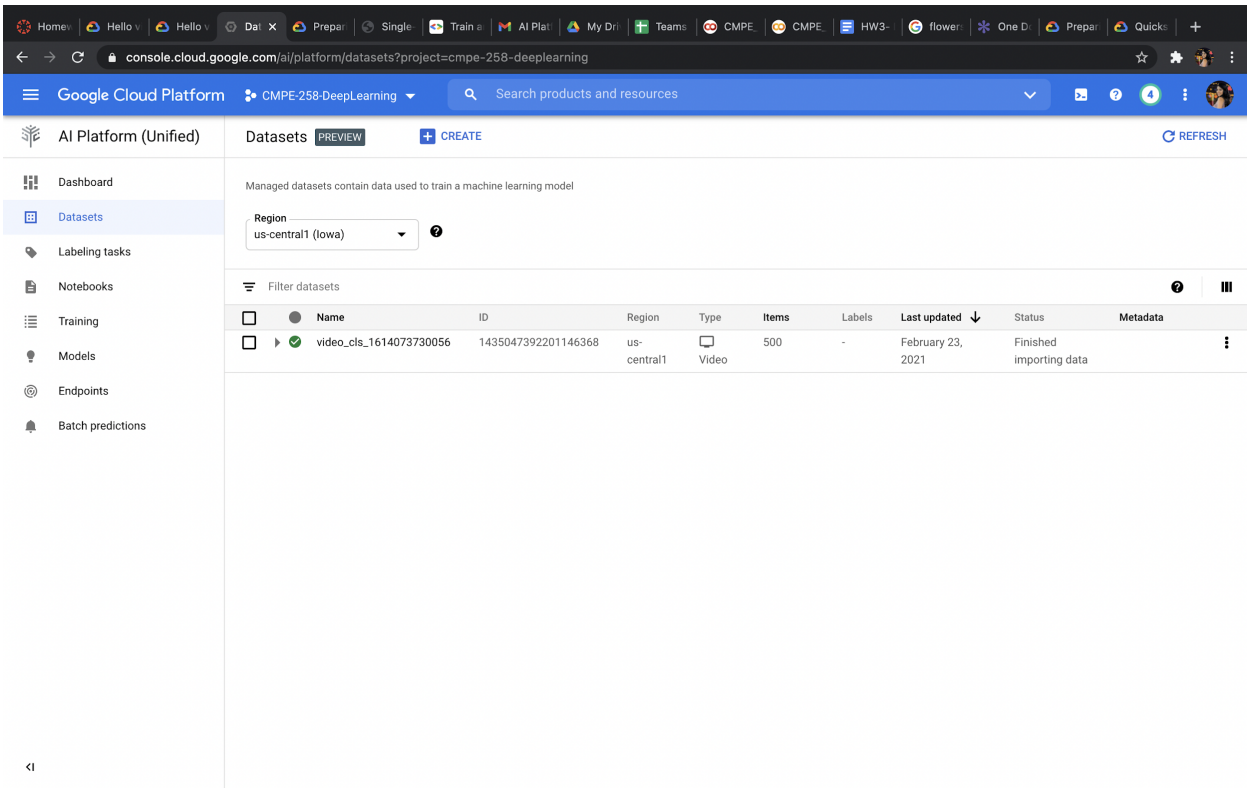
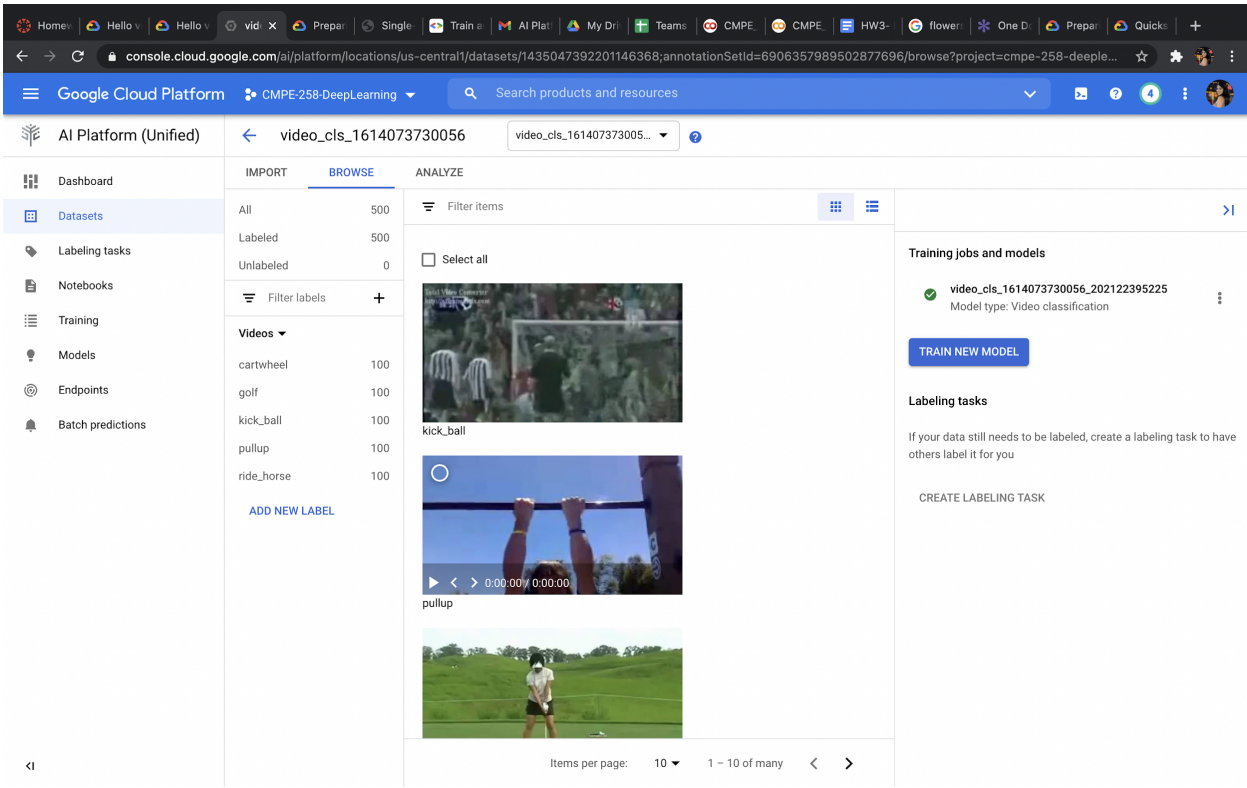
Endpoints
Batch predictions
EVALUATE
DEPLOY & TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Deploy your model
Endpoints are machine learning models made available for online prediction requests. Endpoints are useful for timely predictions from many users (for example, in response to an application request). 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
imdb-txt-cls
7654817544762556416
1
us-central1
Feb 19, 2021, 10:20:18 AM
Sample request
Google-managed key
Test your model
PREVIEW
awesome
PREDICT
Filter labels
positive 0.947
negative 0.048
sentiment 0.005
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All

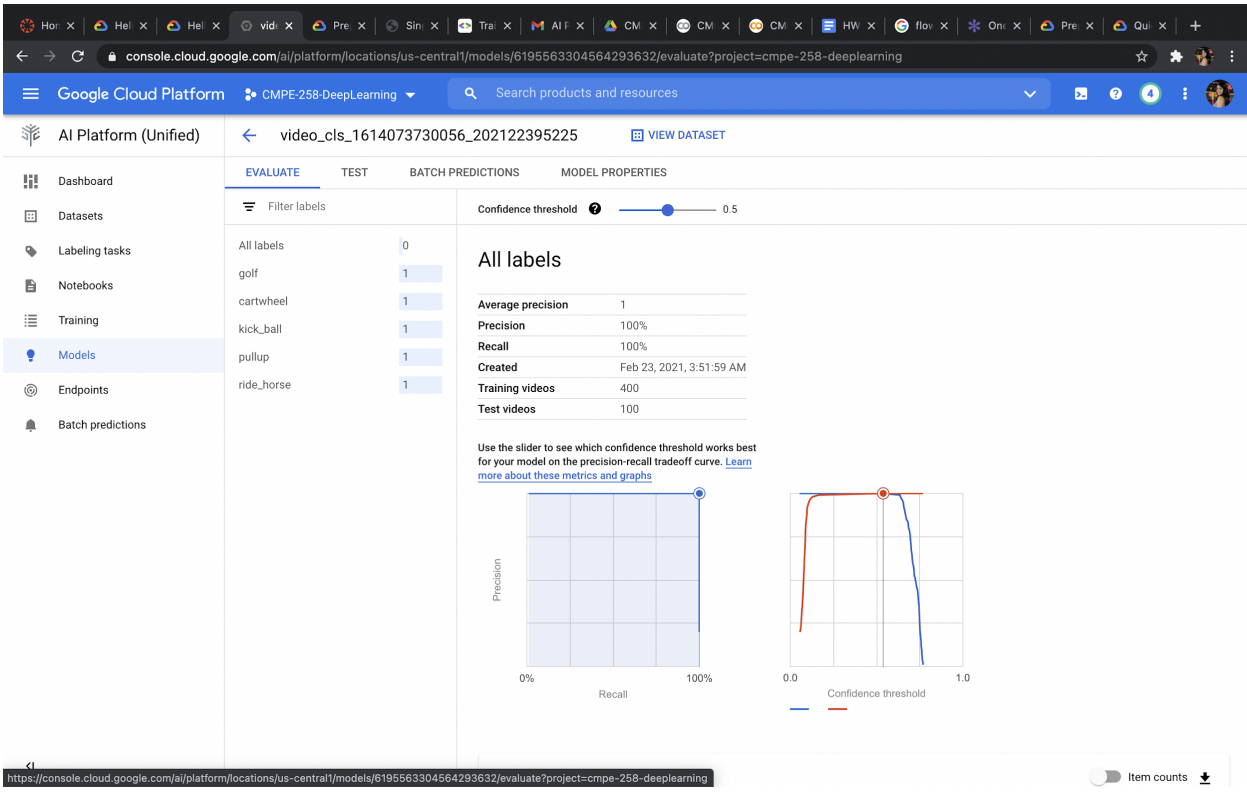

console.cloud.google.com/ai/platform/locations/us-central1/models/9215226854716211200/deploy?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
IMDB_Movie_Review_Classification_202121910540
VIEW DATASET
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
EVALUATE
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
imdb-txt-cls
7654817544762556416
1
us-central1
Feb 19, 2021, 10:20:18 AM
Sample request
Google-managed key
Test your model
PREVIEW
pathetic
PREDICT
Filter labels
positive 0.947
negative 0.048
sentiment 0.005
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All

- Hello video data
  - Setting up project
  - Dataset





- Model


console.cloud.google.com/ai/platform/locations/us-central1/models/6195563304564293632/evaluate?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
video_cls_1614073730056_202122395225
VIEW DATASET
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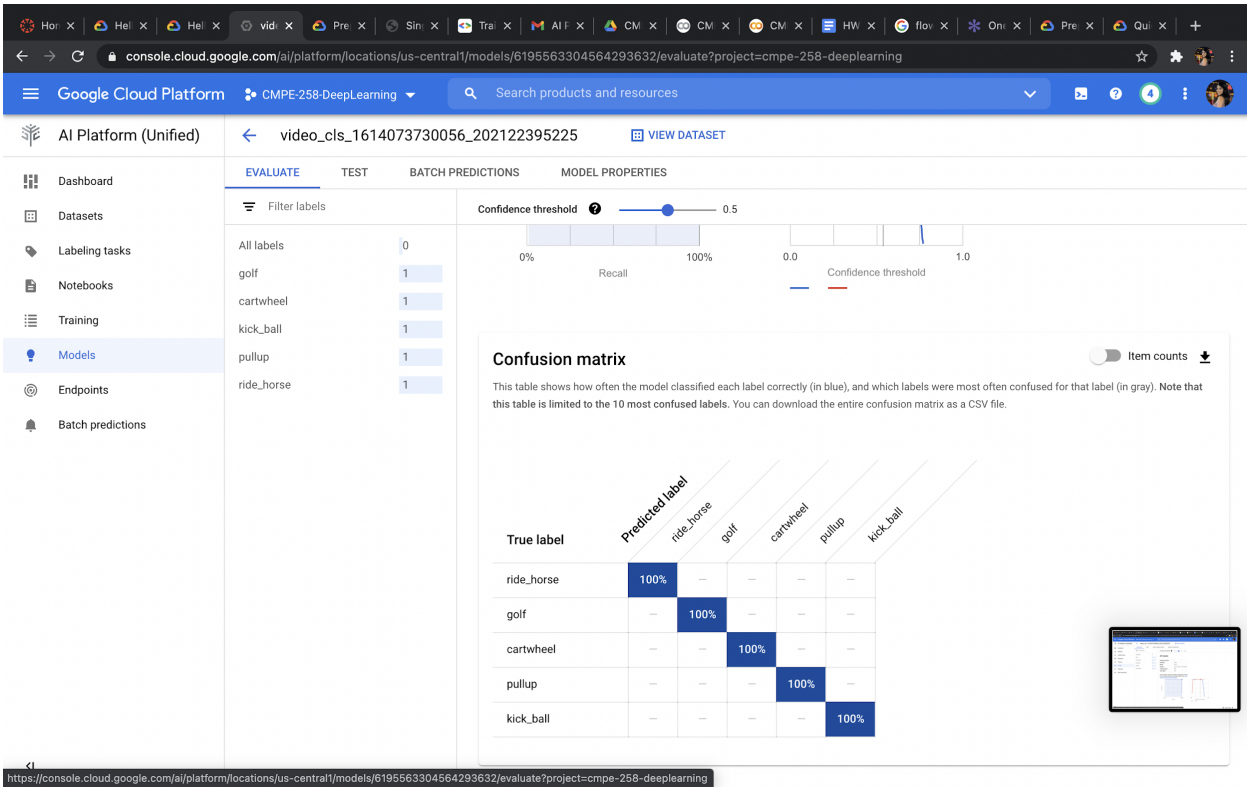
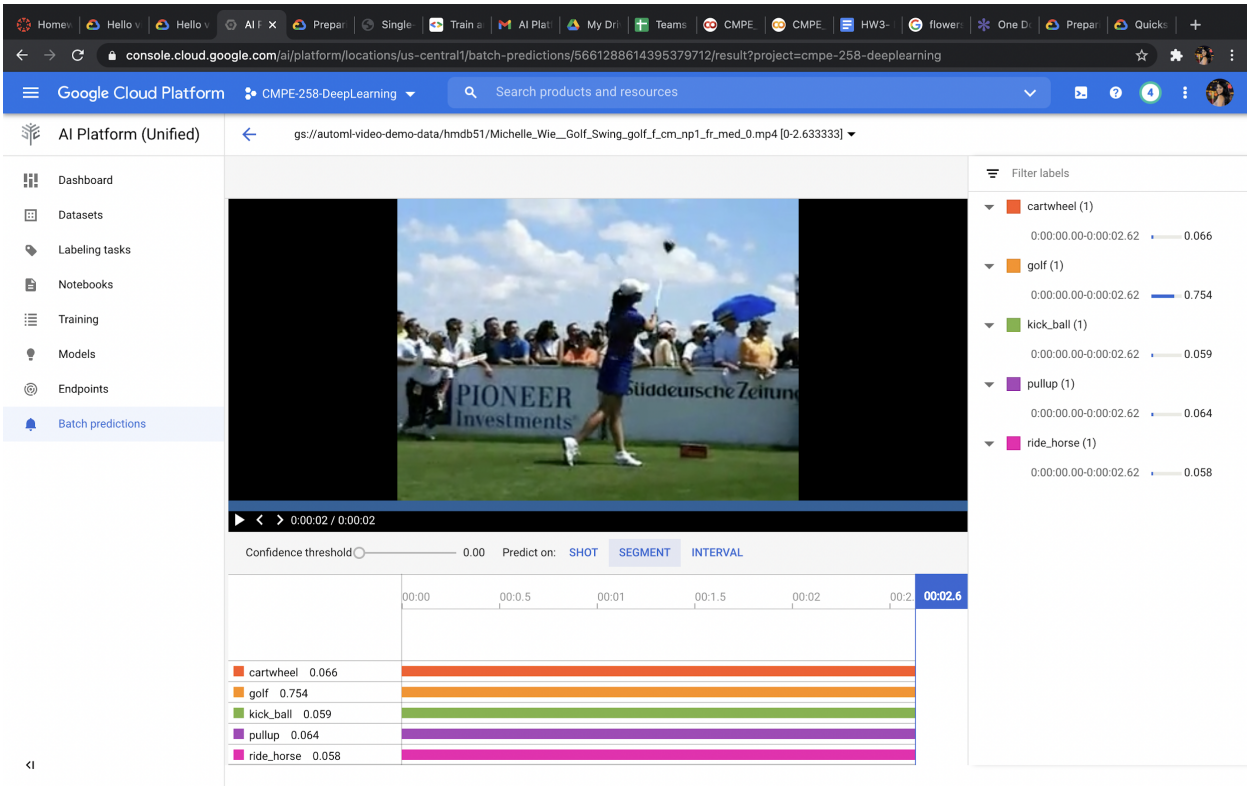
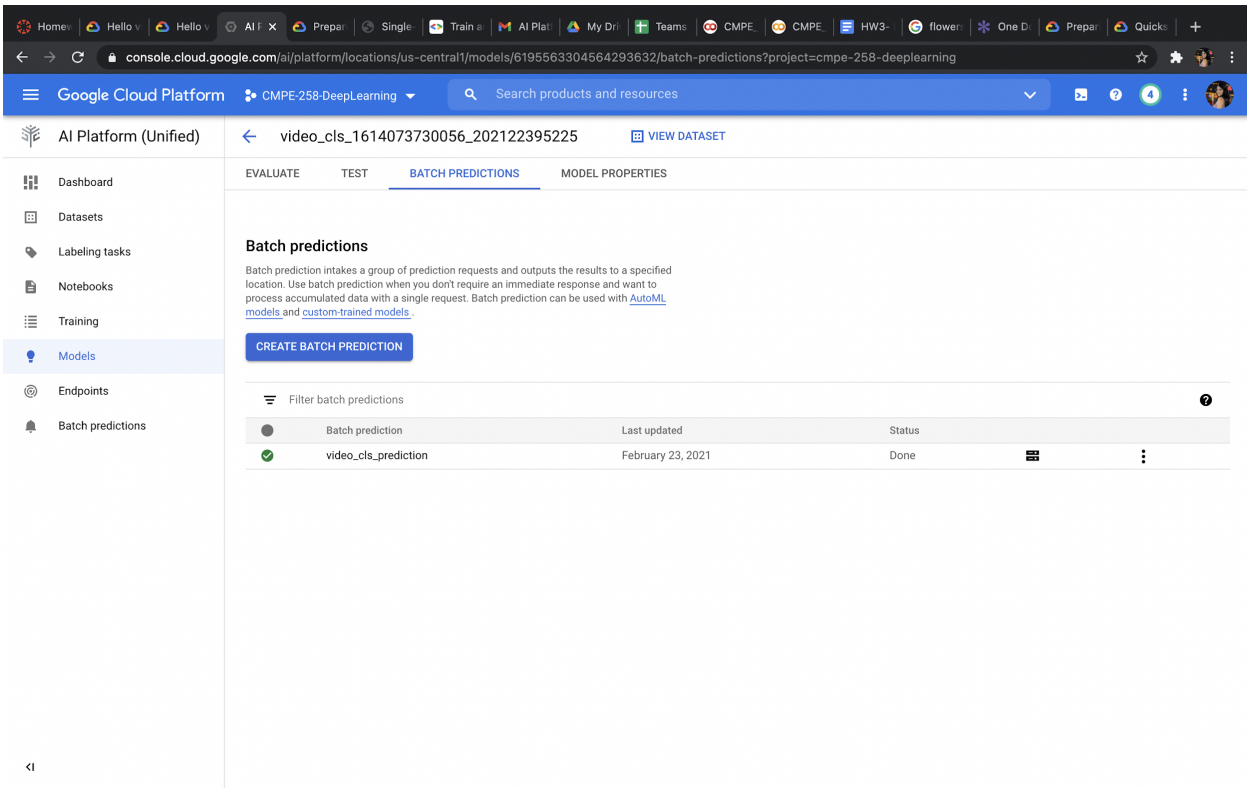
Batch predictions
EVALUATE
TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Filter labels
Confidence threshold
0.5
All labels 0
golf 1
cartwheel 1
kick_ball 1
pullup 1
ride_horse 1
All labels
Average precision 1
Precision 100%
Recall 100%
Created Feb 23, 2021, 3:51:59 AM
Training videos 400
Test videos 100
Use the slider to see which confidence threshold works best for your model on the precision-recall tradeoff curve. Learn more about these metrics and graphs
Precision
0%
100%
Recall
0.0
1.0
Confidence threshold
Item counts
https://console.cloud.google.com/ai/platform/locations/us-central1/models/6195563304564293632/evaluate?project=cmpe-258-deeplearning

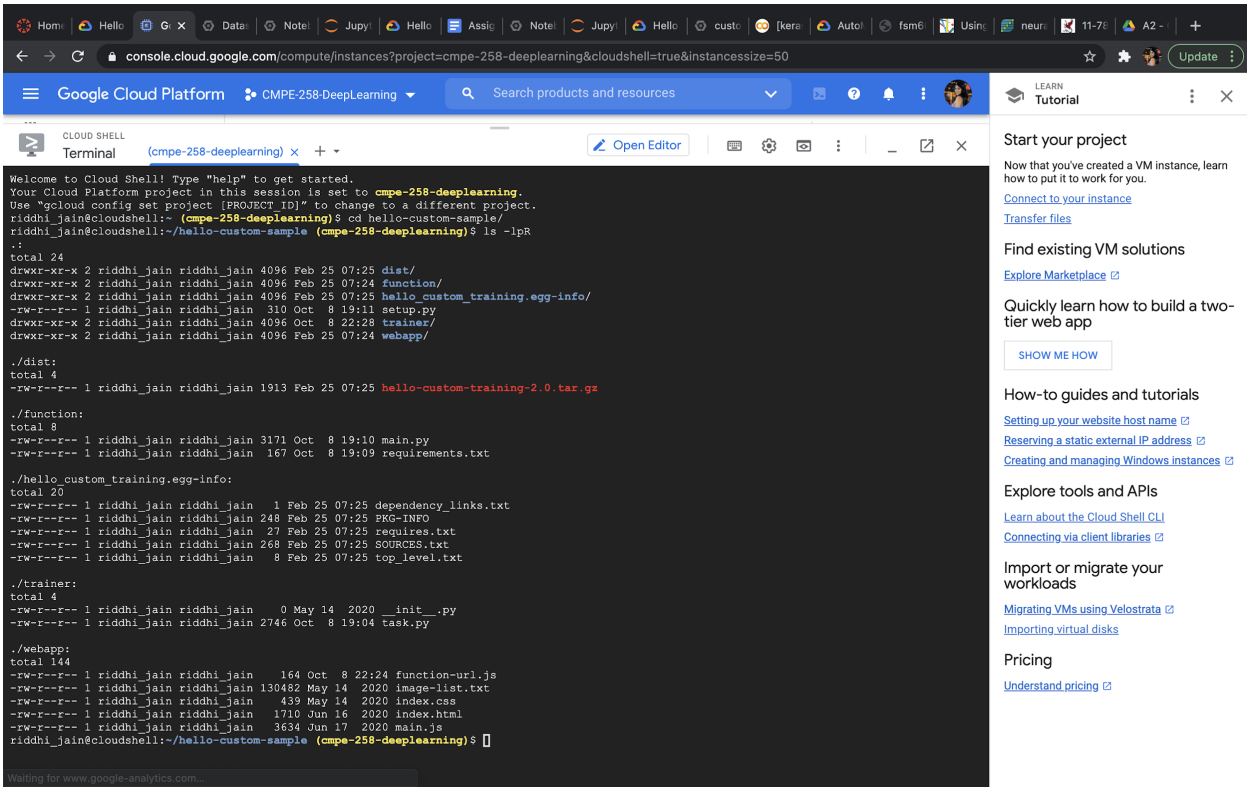

console.cloud.google.com/ai/platform/locations/us-central1/models/6195563304564293632/evaluate?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
video_cls_1614073730056_202122395225
VIEW DATASET
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
EVALUATE
TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Filter labels
Confidence threshold
0.5
All labels 0
golf 1
cartwheel 1
kick_ball 1
pullup 1
ride_horse 1
0%
100%
Recall
0.0
1.0
Confidence threshold
Confusion matrix
Item counts
This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.
True label
Predicted label
ride_horse
golf
cartwheel
pullup
kick_ball
ride_horse 100%
golf 100%
cartwheel 100%
pullup 100%
kick_ball 100%
https://console.cloud.google.com/ai/platform/locations/us-central1/models/6195563304564293632/evaluate?project=cmpe-258-deeplearning

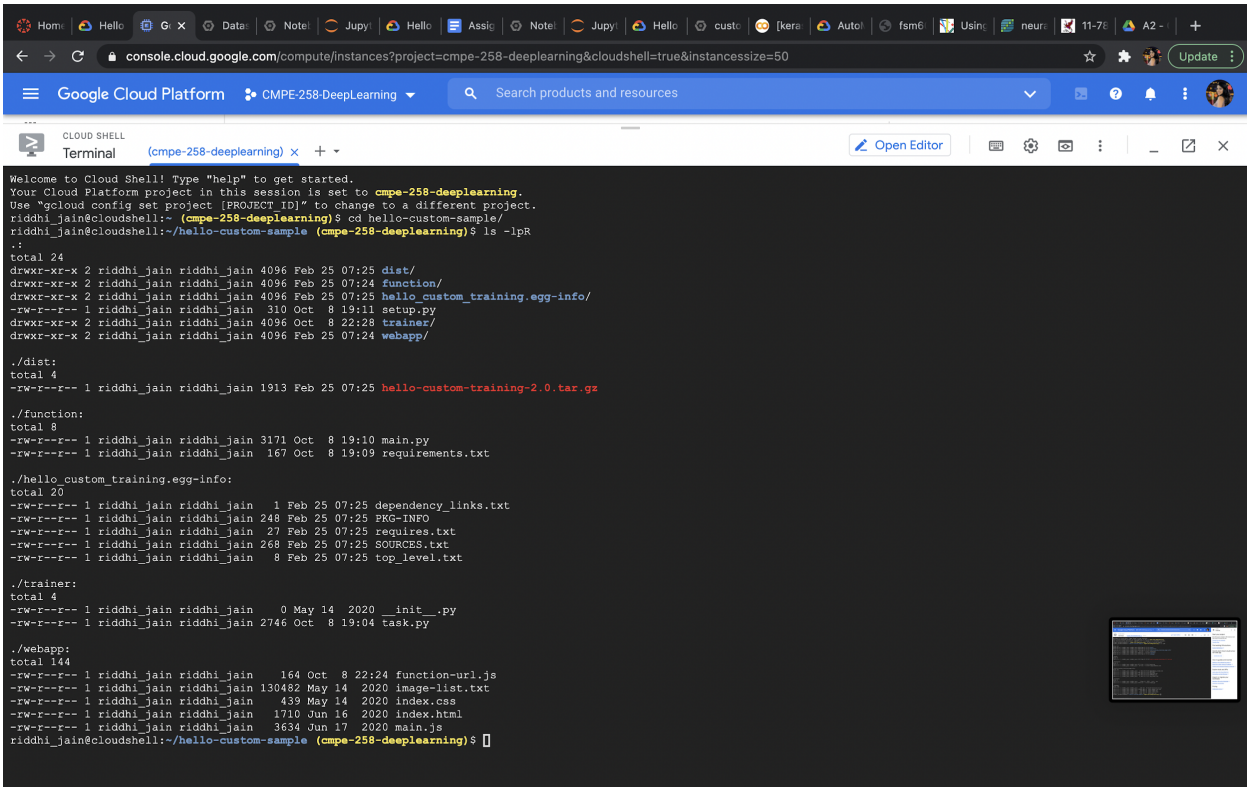
- Test


console.cloud.google.com/ai/platform/locations/us-central1/batch-predictions/5661288614395379712/result?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
gs://automl-video-demo-data/hmdb51/Michelle_Wie__Golf_Swing_golf_f_cm_np1_fr_med_0.mp4 [0-2.633333]
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Filter labels
cartwheel (1)
0:00:00.00-0:00:02.62 0.066
golf (1)
0:00:00.00-0:00:02.62 0.754
kick_ball (1)
0:00:00.00-0:00:02.62 0.059
pullup (1)
0:00:00.00-0:00:02.62 0.064
ride_horse (1)
0:00:00.00-0:00:02.62 0.058
0:00:02 / 0:00:02
Confidence threshold 0.00
Predict on: SHOT SEGMENT INTERVAL
00:00
00:0.5
00:01
00:1.5
00:02
00:02.6
cartwheel 0.066
golf 0.754
kick_ball 0.059
pullup 0.064
ride_horse 0.058

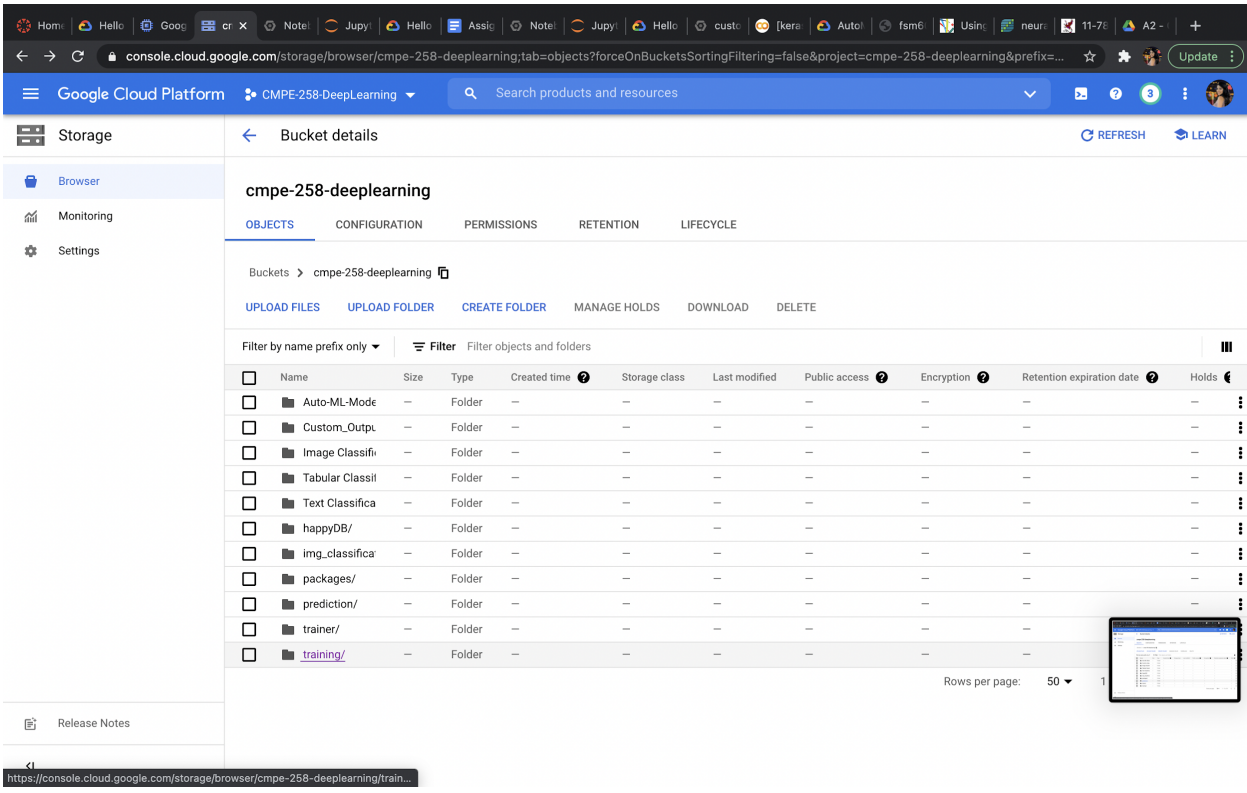

console.cloud.google.com/ai/platform/locations/us-central1/models/6195563304564293632/batch-predictions?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
video_cls_1614073730056_202122395225
VIEW DATASET
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
EVALUATE
TEST
BATCH PREDICTIONS
MODEL PROPERTIES
Batch predictions
Batch prediction intakes a group of prediction requests and outputs the results to a specified location. Use batch prediction when you don't require an immediate response and want to process accumulated data with a single request. Batch prediction can be used with AutoML models and custom-trained models .
CREATE BATCH PREDICTION
Filter batch predictions
Batch prediction
Last updated
Status
video_cls_prediction
February 23, 2021
Done

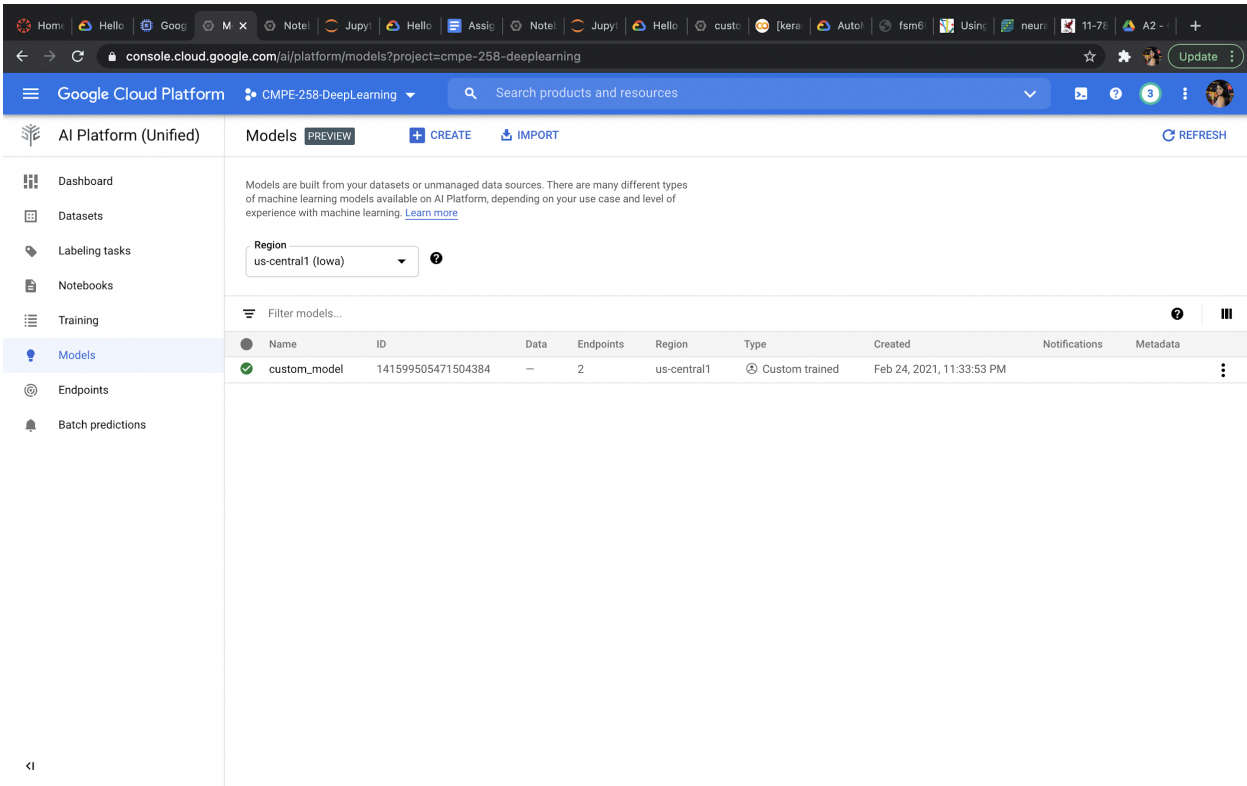
- Hello custom training
  - Model



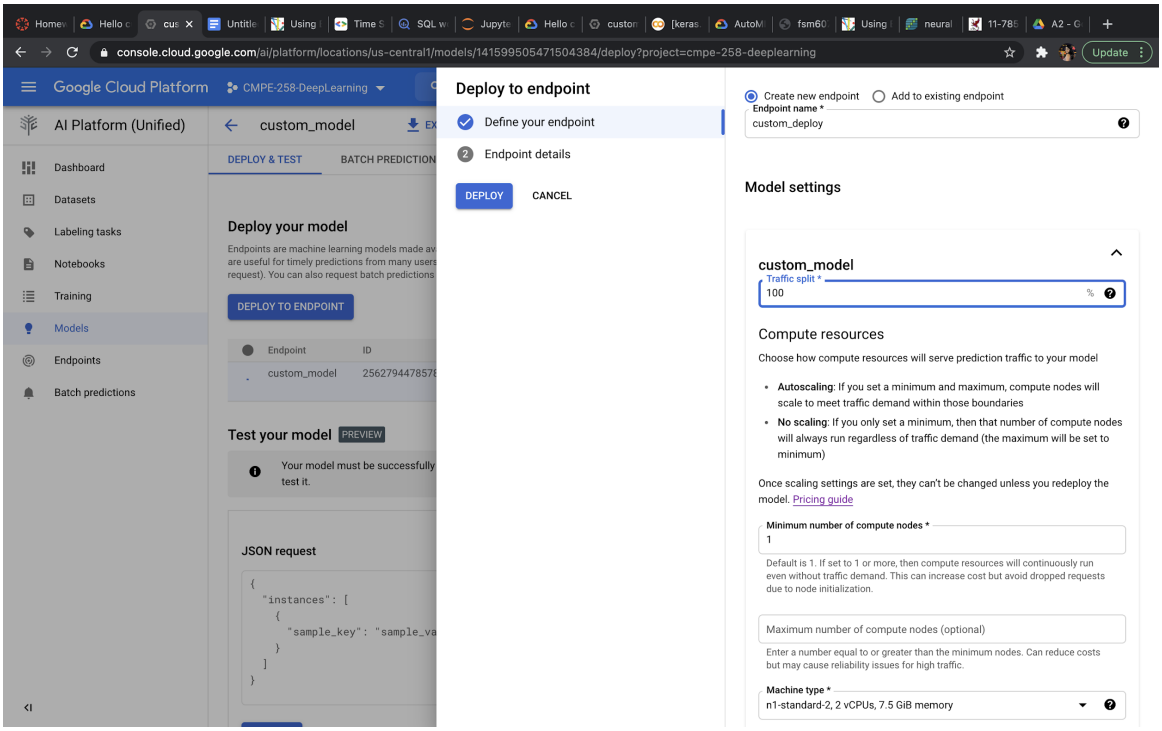


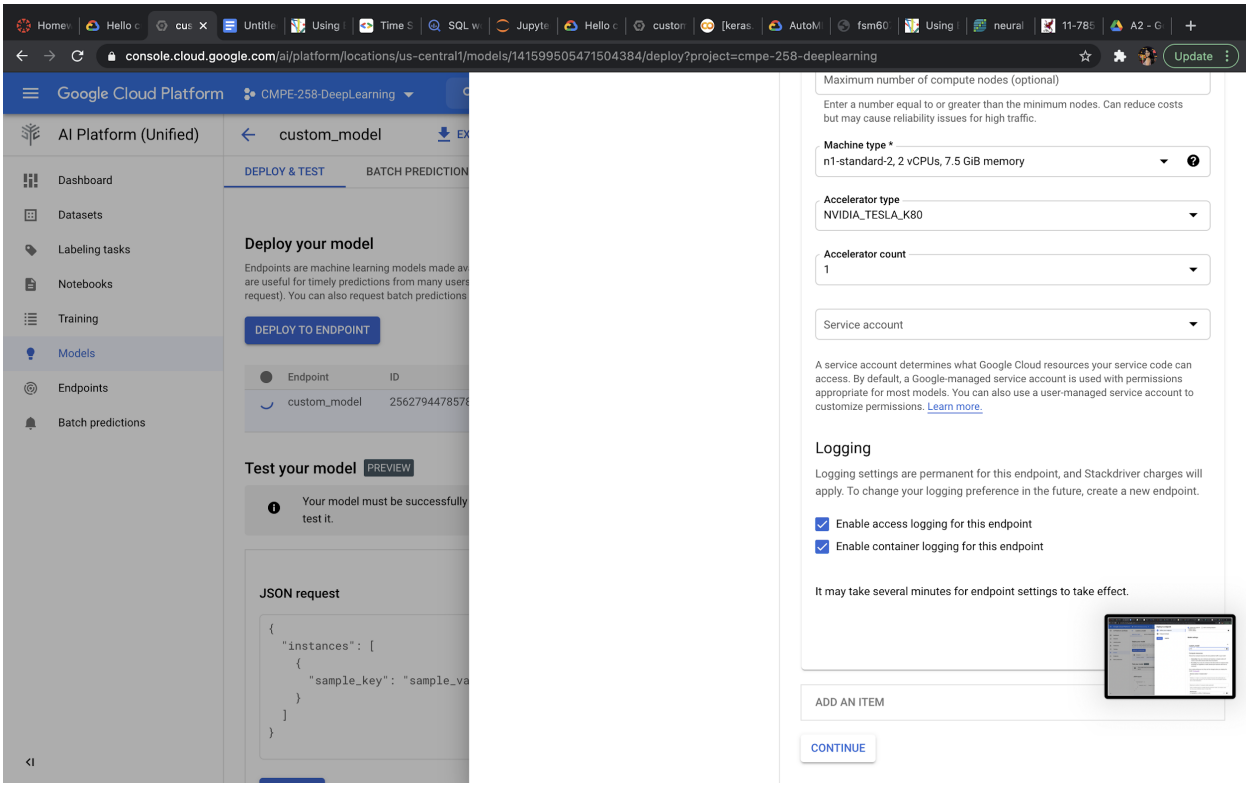
```
[1]+  Stopped                 less trainer/task.py
riddhi_jain@cloudshell:~/hello-custom-sample (cmpe-258-deeplearning)$ gsutil cp dist/hello-custom-training-2.0.tar.gz \
>   gs://cmpe-256-deeplearning/training/
```

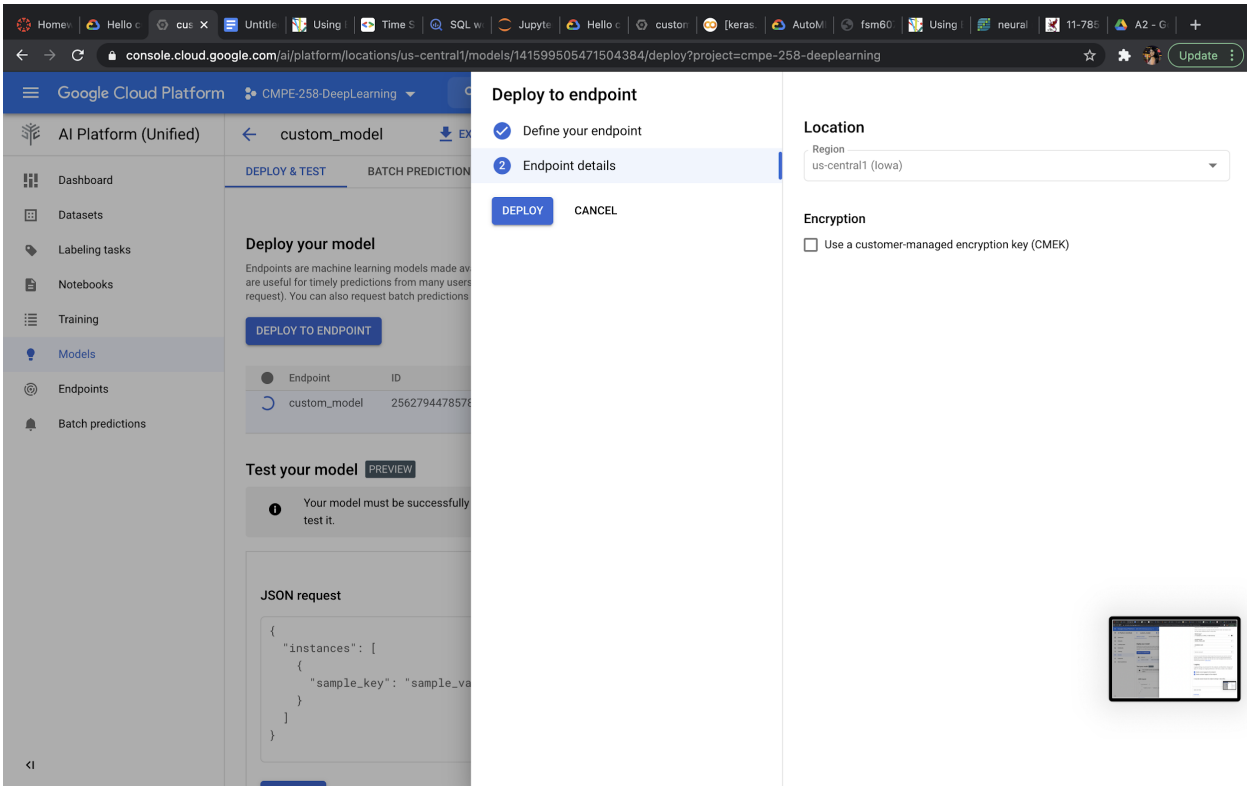




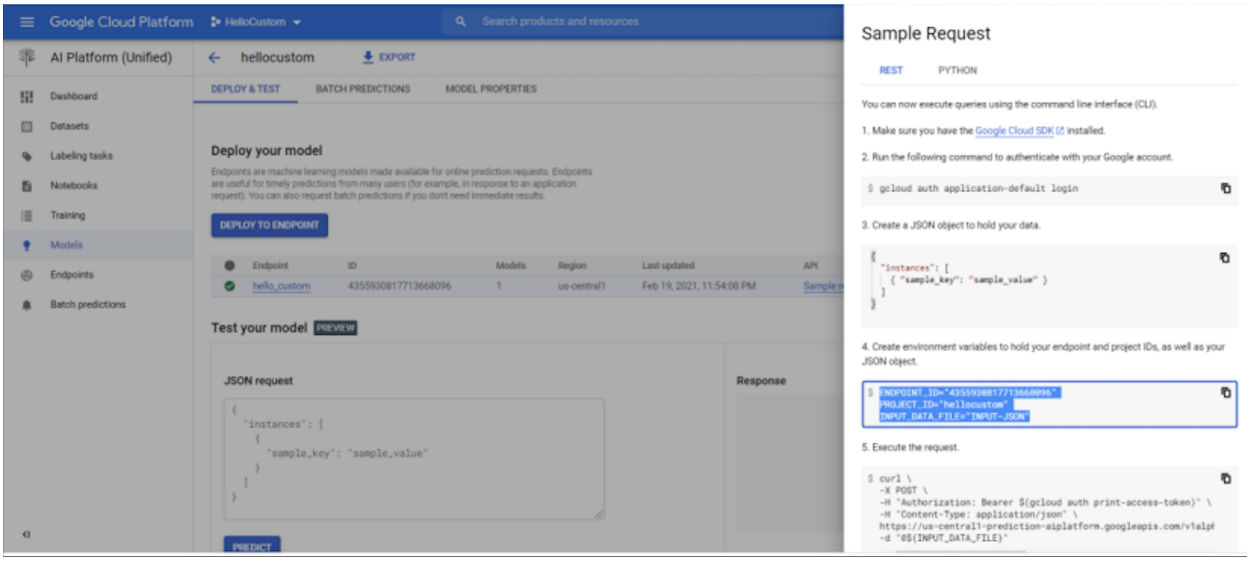
- Deploy


console.cloud.google.com/ai/platform/locations/us-central1/models/1415995054715043 84/deploy?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
AI Platform (Unified)
custom_model
DEPLOY & TEST
BATCH PREDICTION
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Deploy your model
DEPLOY TO ENDPOINT
Endpoint
ID
custom_model
Test your model
PREVIEW
Your model must be successfully
test it.
JSON request
{
"instances": [
{
"sample_key": "sample_va
}
]
}
Deploy to endpoint
Define your endpoint
Endpoint details
DEPLOY
CANCEL
Create new endpoint
Add to existing endpoint
Endpoint name *
custom_deploy
Model settings
custom_model
Traffic split *
100
%
Compute resources
Choose how compute resources will serve prediction traffic to your model
Autoscaling: If you set a minimum and maximum, compute nodes will scale to meet traffic demand within those boundaries
No scaling: If you only set a minimum, then that number of compute nodes will always run regardless of traffic demand (the maximum will be set to minimum)
Once scaling settings are set, they can't be changed unless you redeploy the model. Pricing guide
Minimum number of compute nodes *
1
Default is 1. If set to 1 or more, then compute resources will continuously run even without traffic demand. This can increase cost but avoid dropped requests due to node initialization.
Maximum number of compute nodes (optional)
Enter a number equal to or greater than the minimum nodes. Can reduce costs but may cause reliability issues for high traffic.
Machine type *
n1-standard-2, 2 vCPUs, 7.5 GiB memory

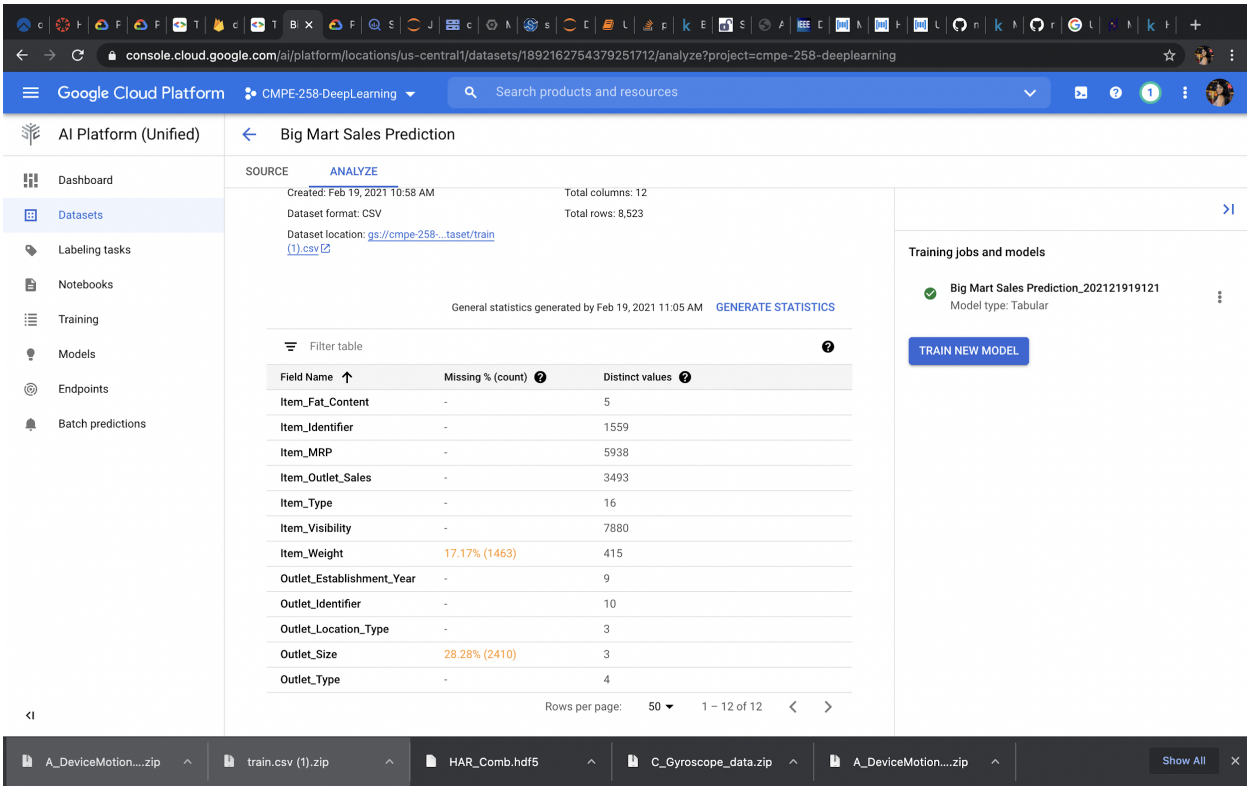

console.cloud.google.com/ai/platform/locations/us-central1/models/1415995054715043 84/deploy?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
AI Platform (Unified)
custom_model
DEPLOY & TEST
BATCH PREDICTION
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Deploy your model
DEPLOY TO ENDPOINT
Endpoint
ID
custom_model
Test your model
PREVIEW
Your model must be successfully
test it.
JSON request
{
"instances": [
{
"sample_key": "sample_va
}
]
}
Maximum number of compute nodes (optional)
Enter a number equal to or greater than the minimum nodes. Can reduce costs but may cause reliability issues for high traffic.
Machine type *
n1-standard-2, 2 vCPUs, 7.5 GiB memory
Accelerator type
NVIDIA_TESLA_K80
Accelerator count
1
Service account
A service account determines what Google Cloud resources your service code can access. By default, a Google-managed service account is used with permissions appropriate for most models. You can also use a user-managed service account to customize permissions. Learn more.
Logging
Logging settings are permanent for this endpoint, and Stackdriver charges will apply. To change your logging preference in the future, create a new endpoint.
Enable access logging for this endpoint
Enable container logging for this endpoint
It may take several minutes for endpoint settings to take effect.
ADD AN ITEM
CONTINUE



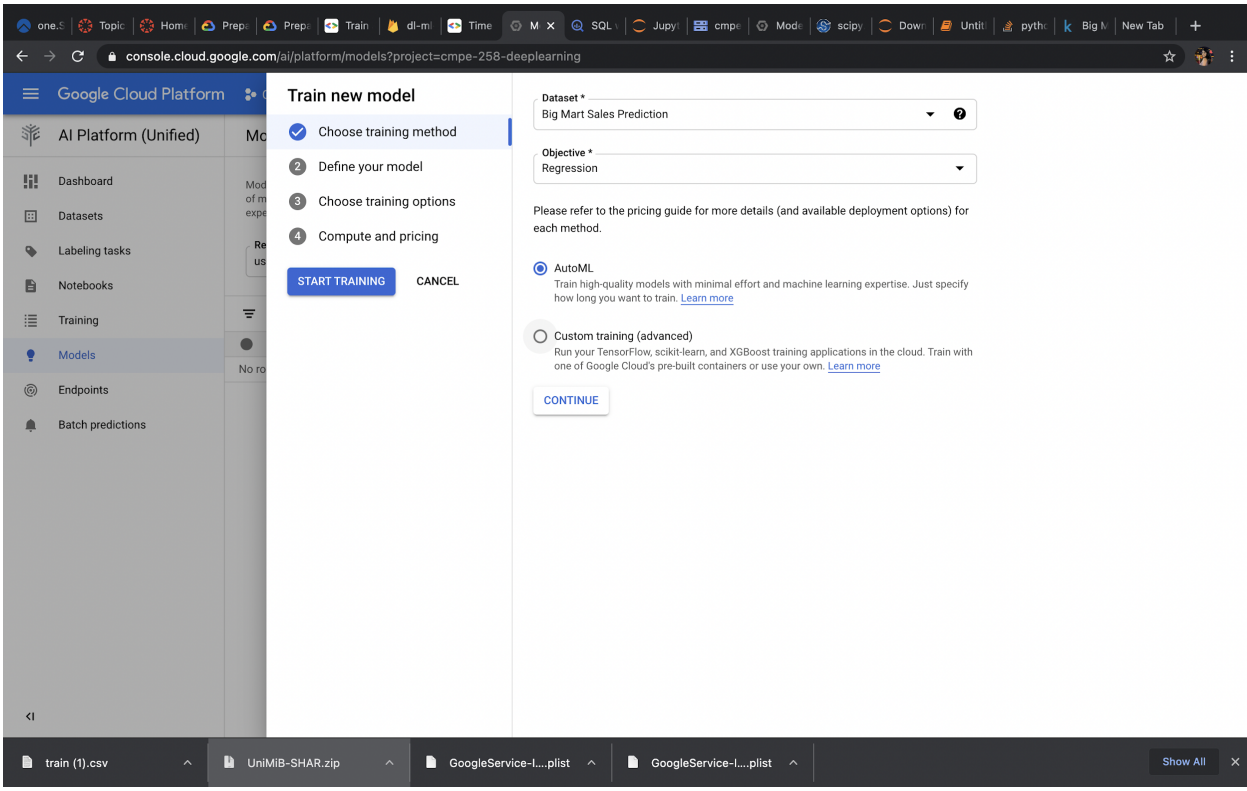
- Endpoint and Test

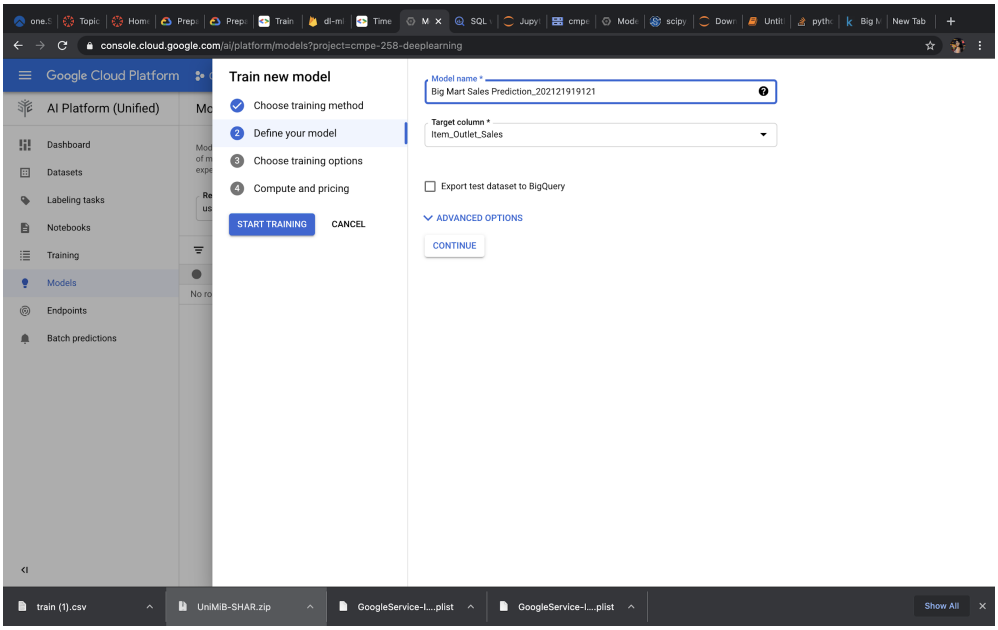


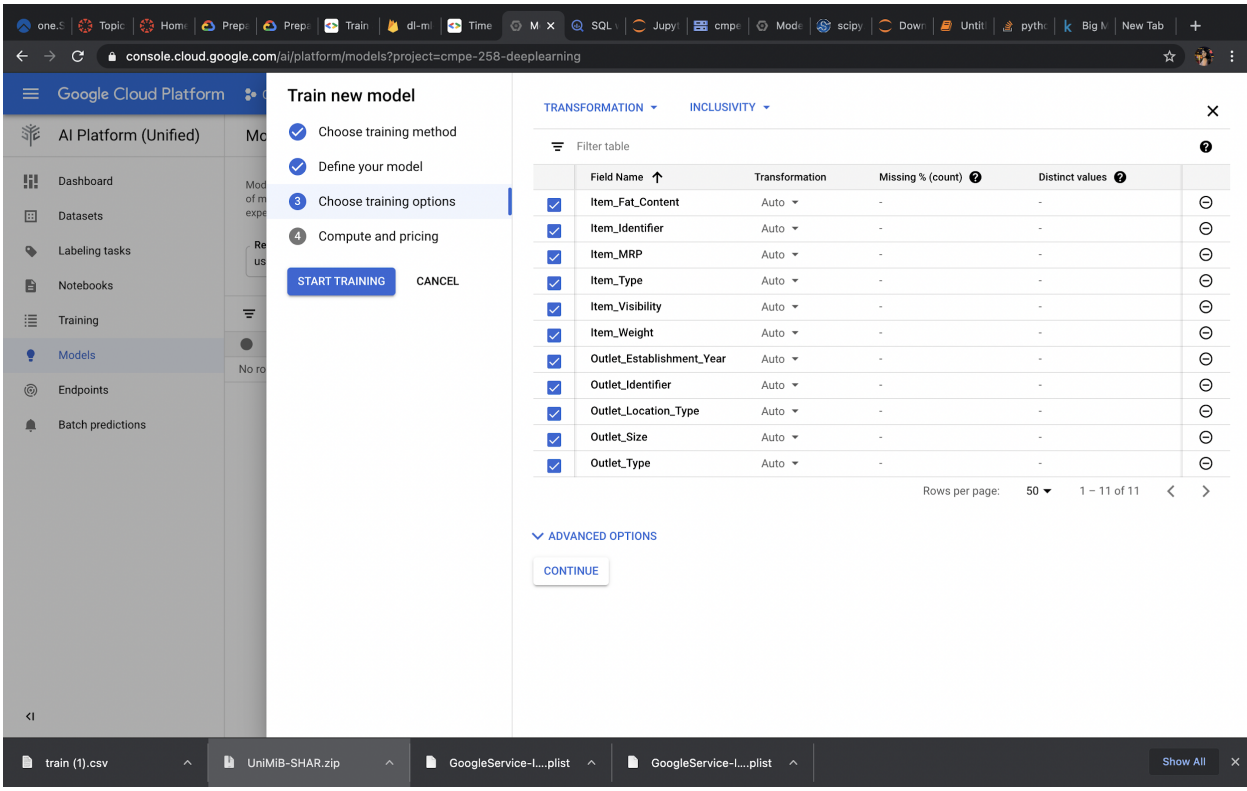
- Hello structured data
  - Dataset

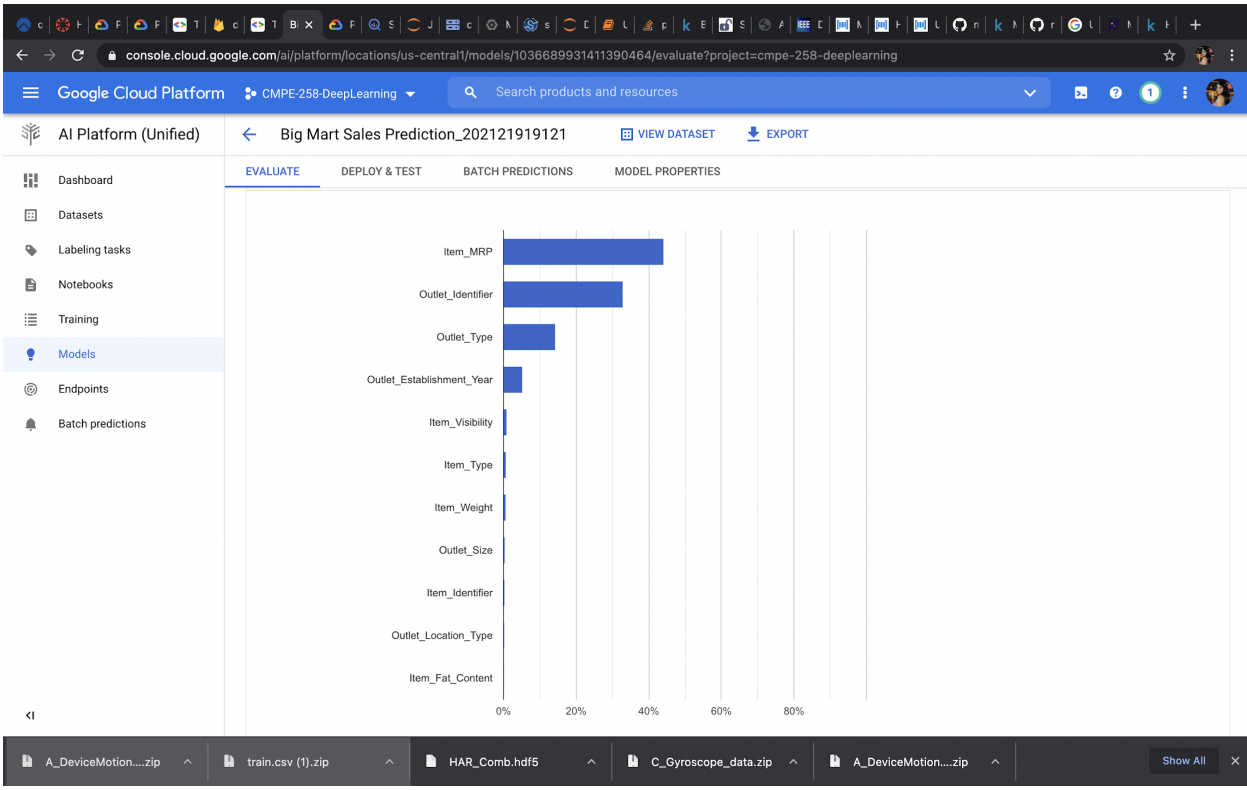

console.cloud.google.com/ai/platform/locations/us-central1/datasets/1892162754379251712/analyze?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
AI Platform (Unified)
Big Mart Sales Prediction
SOURCE
ANALYZE
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Created: Feb 19, 2021 10:58 AM
Dataset format: CSV
Dataset location: gs://cmpe-258-...taset/train (1).csv
Total columns: 12
Total rows: 8,523
General statistics generated by Feb 19, 2021 11:05 AM
GENERATE STATISTICS
Filter table
Field Name
Missing % (count)
Distinct values
Item_Fat_Content - 5
Item_Identifier - 1559
Item_MRP - 5938
Item_Outlet_Sales - 3493
Item_Type - 16
Item_Visibility - 7880
Item_Weight 17.17% (1463) 415
Outlet_Establishment_Year - 9
Outlet_Identifier - 10
Outlet_Location_Type - 3
Outlet_Size 28.28% (2410) 3
Outlet_Type - 4
Rows per page: 50
1 – 12 of 12
Training jobs and models
Big Mart Sales Prediction_202121919121
Model type: Tabular
TRAIN NEW MODEL
A_DeviceMotion....zip
train.csv (1).zip
HAR_Comb.hdf5
C_Gyroscope_data.zip
A_DeviceMotion....zip
Show All

- Model

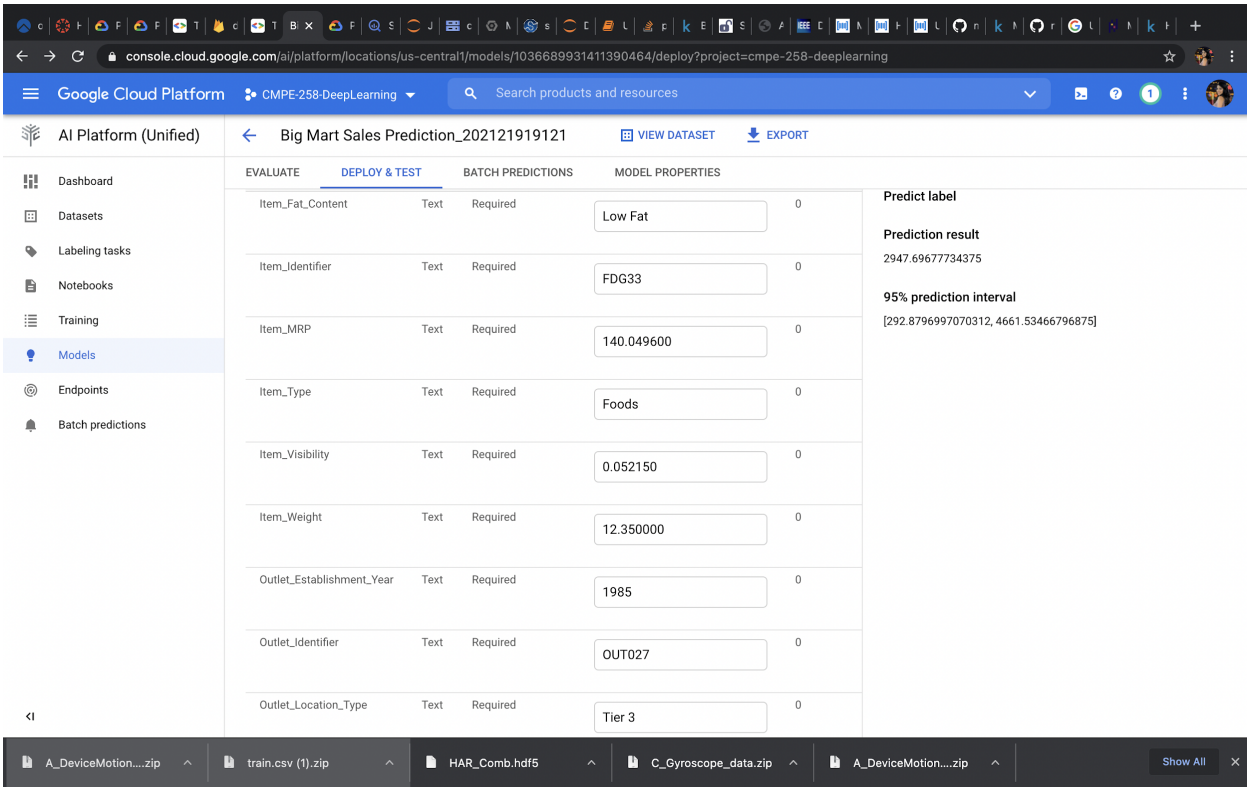

console.cloud.google.com/ai/platform/models?project=cmpe-258-deeplearning
Google Cloud Platform
AI Platform (Unified)
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Train new model
Choose training method
Define your model
Choose training options
Compute and pricing
START TRAINING
CANCEL
Dataset *
Big Mart Sales Prediction
Objective *
Regression
Please refer to the pricing guide for more details (and available deployment options) for each 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
CONTINUE
train (1).csv
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All

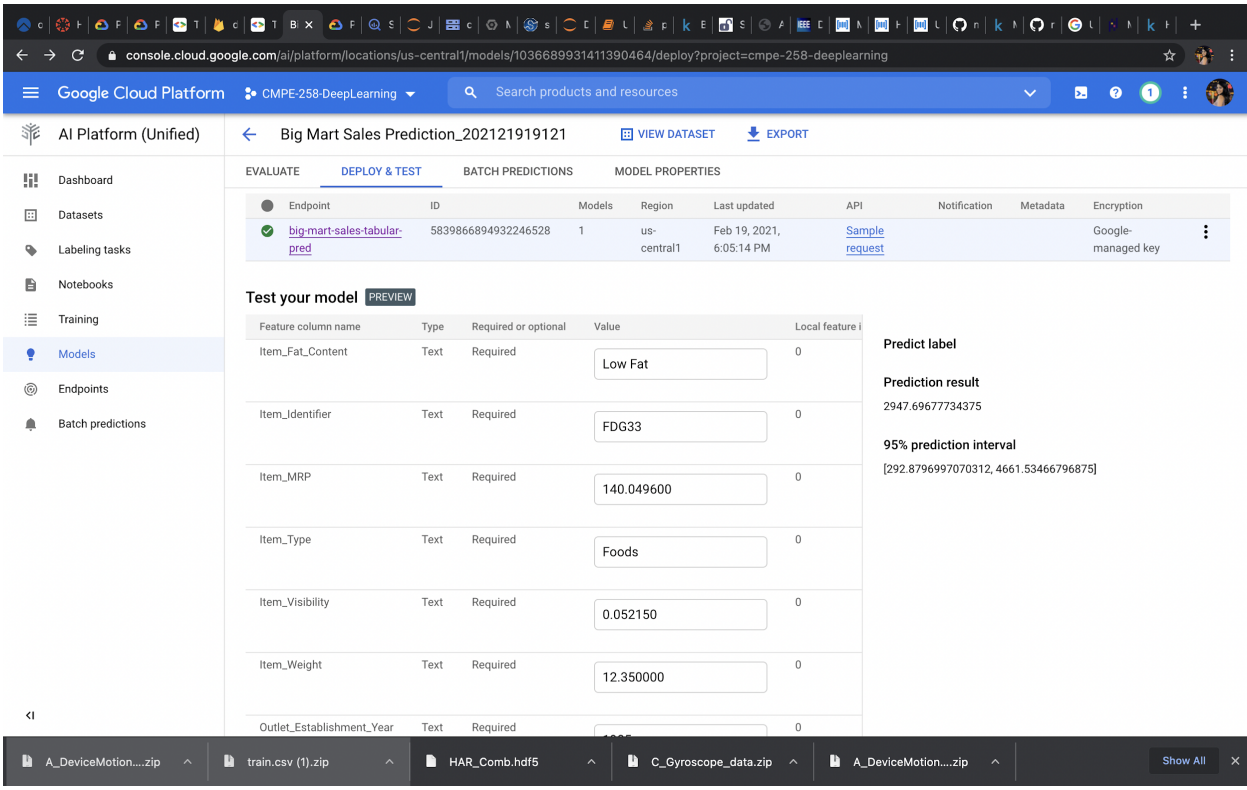

console.cloud.google.com/ai/platform/models?project=cmpe-258-deeplearning
Google Cloud Platform
AI Platform (Unified)
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Train new model
Choose training method
Define your model
Choose training options
Compute and pricing
START TRAINING
CANCEL
Model name *
Big Mart Sales Prediction_202121919121
Target column *
Item_Outlet_Sales
Export test dataset to BigQuery
ADVANCED OPTIONS
CONTINUE
train (1).csv
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All


console.cloud.google.com/ai/platform/models?project=cmpe-258-deeplearning
Google Cloud Platform
AI Platform (Unified)
Dashboard
Datasets
Labeling tasks
Notebooks
Training
Models
Endpoints
Batch predictions
Train new model
Choose training method
Define your model
Choose training options
Compute and pricing
START TRAINING
CANCEL
TRANSFORMATION
INCLUSIVITY
Filter table
Field Name
Transformation
Missing % (count)
Distinct values
Item_Fat_Content Auto
Item_Identifier Auto
Item_MRP Auto
Item_Type Auto
Item_Visibility Auto
Item_Weight Auto
Outlet_Establishment_Year Auto
Outlet_Identifier Auto
Outlet_Location_Type Auto
Outlet_Size Auto
Outlet_Type Auto
Rows per page: 50
1 – 11 of 11
ADVANCED OPTIONS
CONTINUE
train (1).csv
UniMiB-SHAR.zip
GoogleService-I....plist
GoogleService-I....plist
Show All



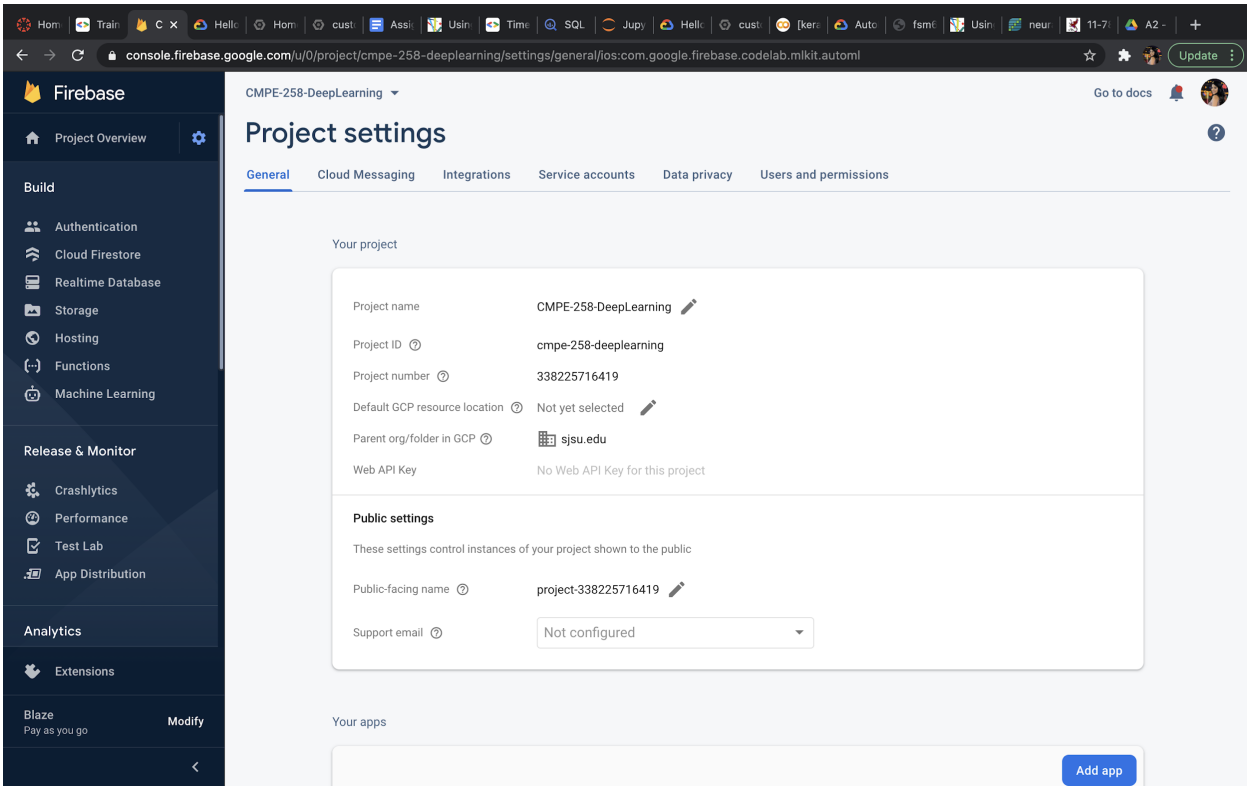
- Deploy & Endpoint & Test



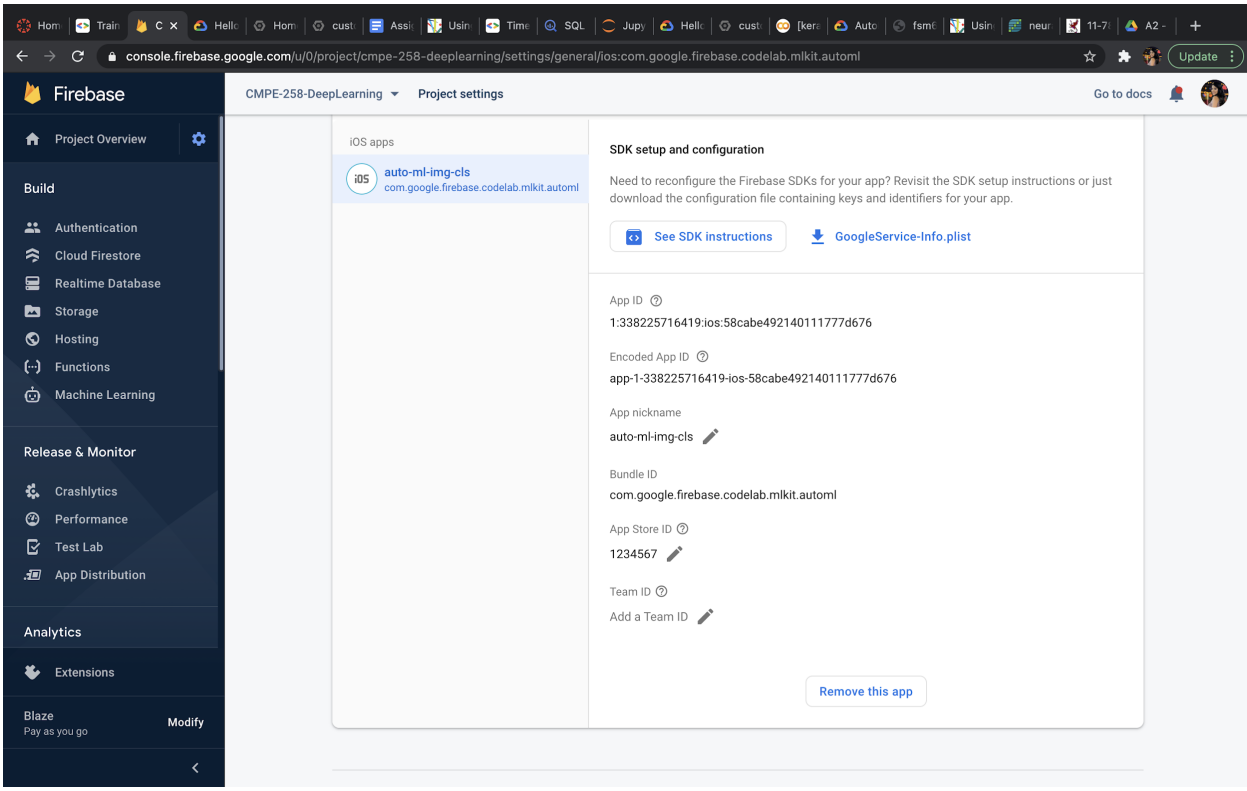


PART 2

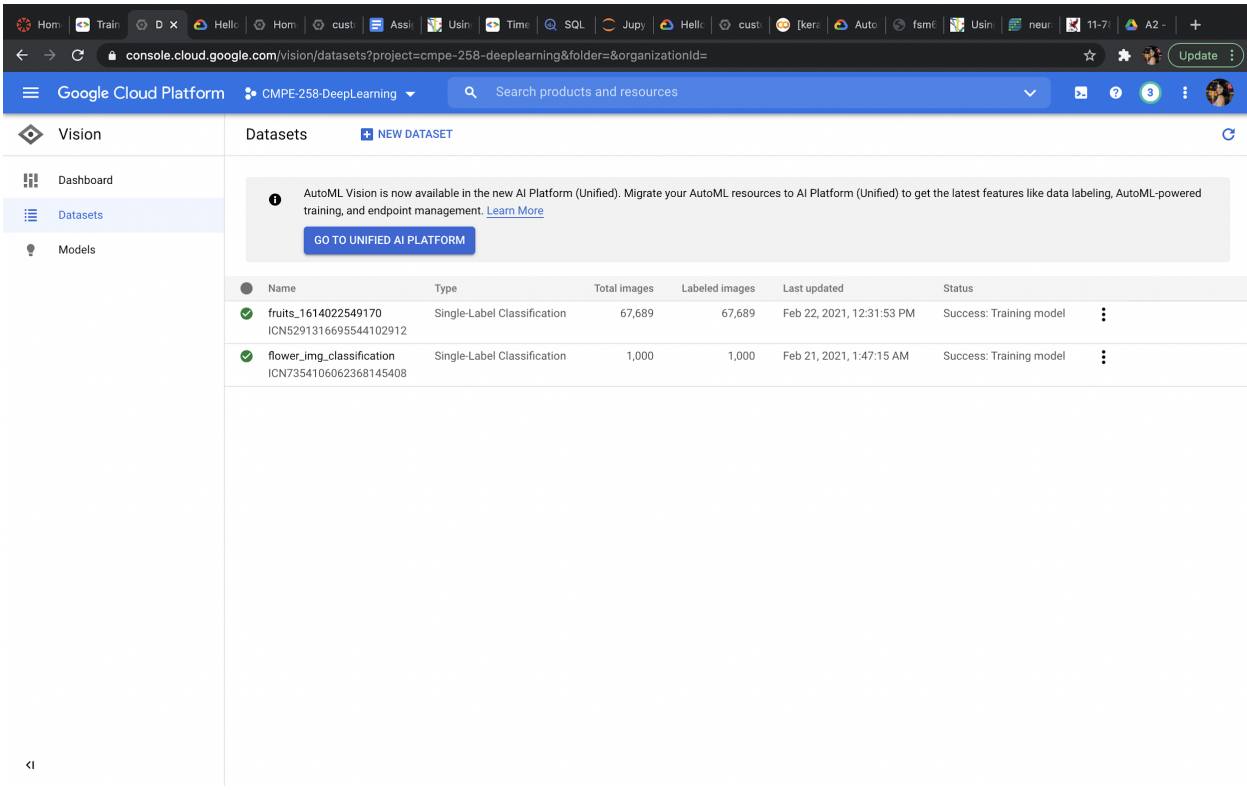
- I - end2end deployment of a vision model using automl to mobile device
    - Firebase Project

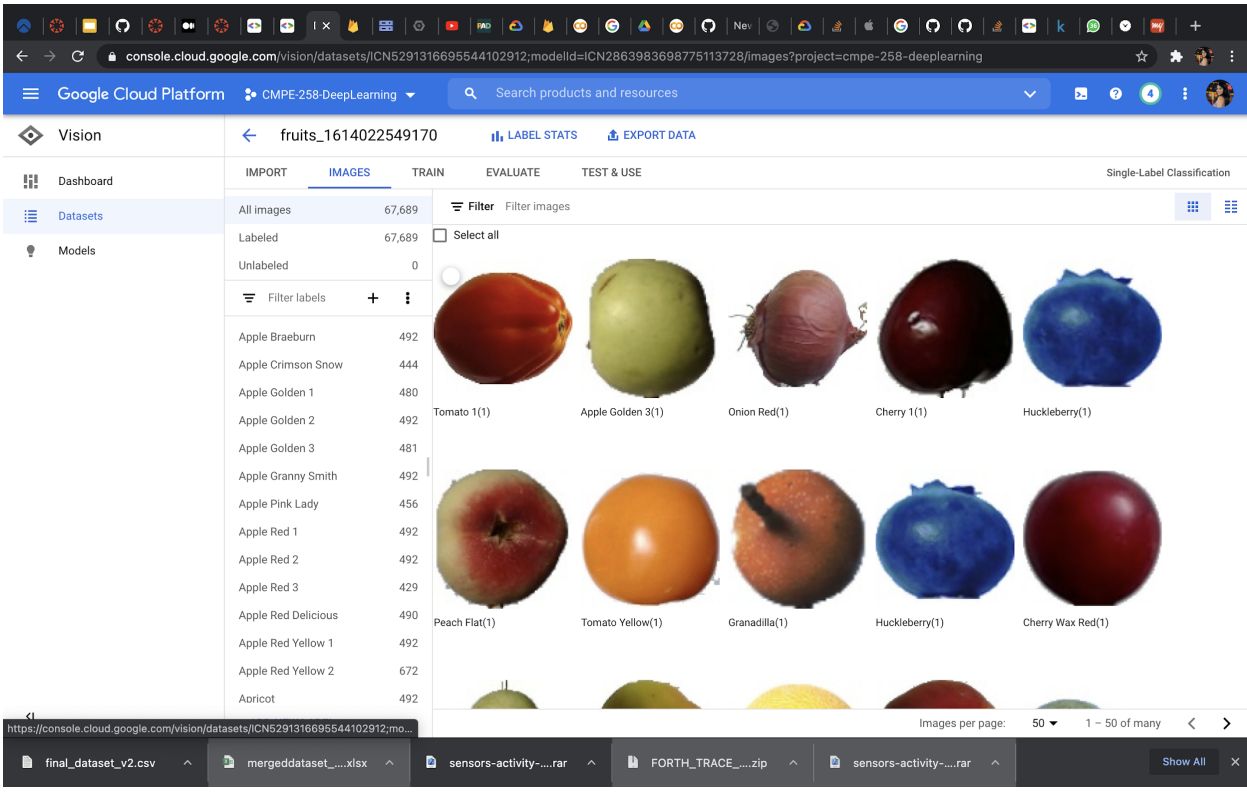


- Setup IOS

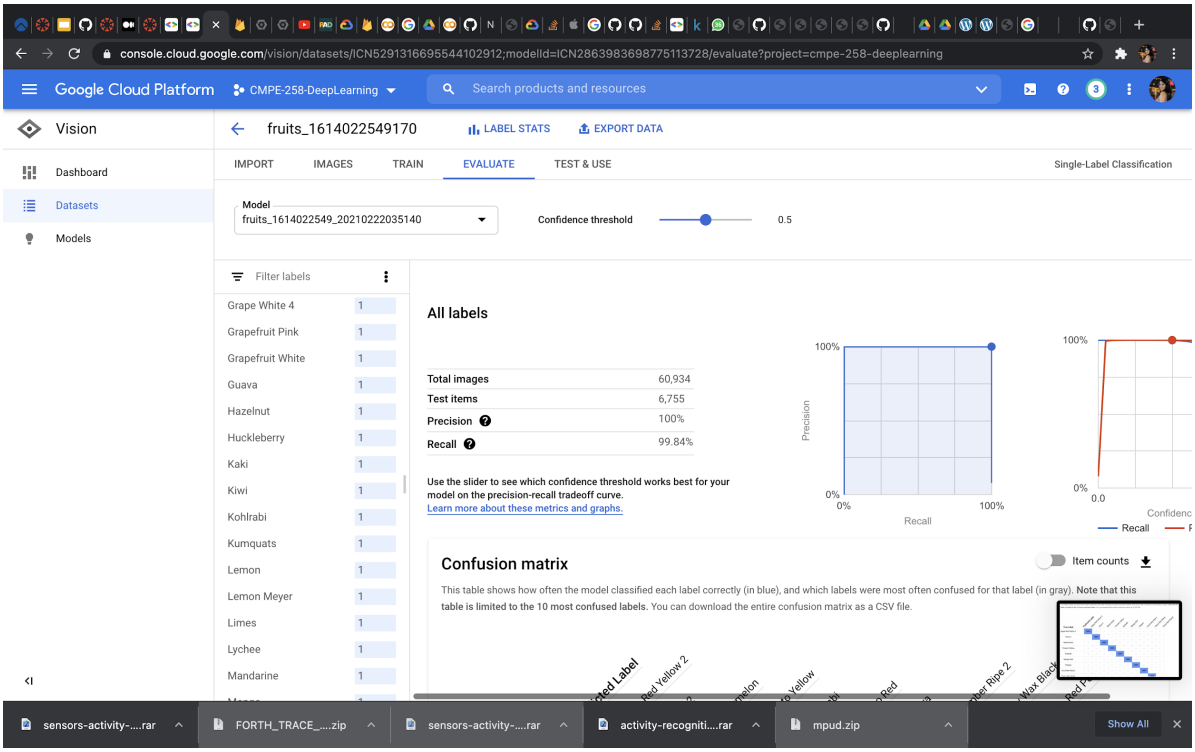


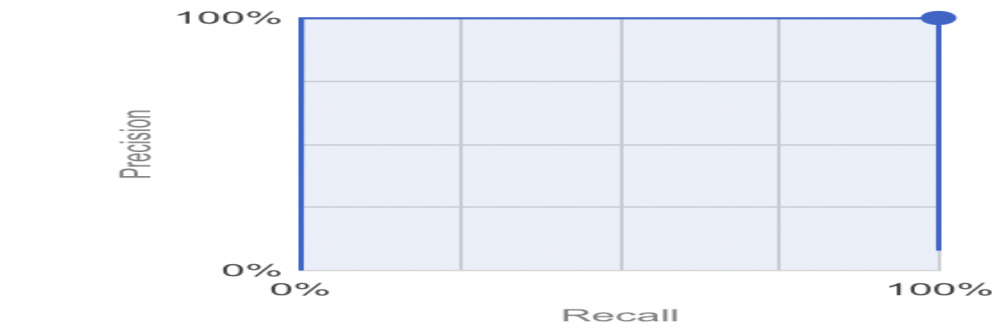
- Dataset

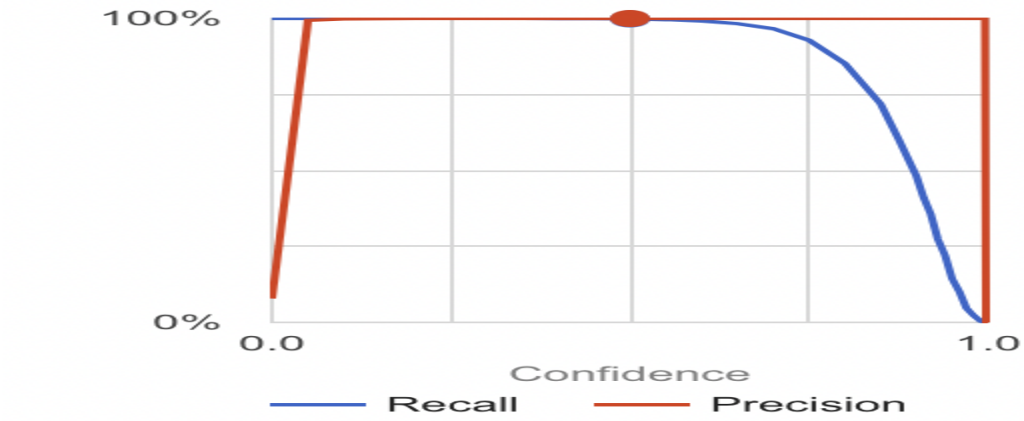

console.cloud.google.com/vision/datasets?project=cmpe-258-deeplearning&folder=&organizationId=
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
Vision
Datasets
NEW DATASET
Dashboard
Datasets
Models
AutoML Vision is now available in the new AI Platform (Unified). Migrate your AutoML resources to AI Platform (Unified) to get the latest features like data labeling, AutoML-powered training, and endpoint management. Learn More
GO TO UNIFIED AI PLATFORM
Name
Type
Total images
Labeled images
Last updated
Status
fruits_1614022549170
ICN5291316695544102912
Single-Label Classification
67,689
67,689
Feb 22, 2021, 12:31:53 PM
Success: Training model
flower_img_classification
ICN7354106062368145408
Single-Label Classification
1,000
1,000
Feb 21, 2021, 1:47:15 AM
Success: Training model


console.cloud.google.com/vision/datasets/ICN5291316695544102912;modelId=ICN2863983698775113728/images?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
Vision
fruits_1614022549170
LABEL STATS
EXPORT DATA
Dashboard
Datasets
Models
IMPORT
IMAGES
TRAIN
EVALUATE
TEST & USE
Single-Label Classification
All images 67,689
Labeled 67,689
Unlabeled 0
Filter labels
Apple Braeburn 492
Apple Crimson Snow 444
Apple Golden 1 480
Apple Golden 2 492
Apple Golden 3 481
Apple Granny Smith 492
Apple Pink Lady 456
Apple Red 1 492
Apple Red 2 492
Apple Red 3 429
Apple Red Delicious 490
Apple Red Yellow 1 492
Apple Red Yellow 2 672
Apricot 492
Filter
Filter images
Select all
Tomato 1(1)
Apple Golden 3(1)
Onion Red(1)
Cherry 1(1)
Huckleberry(1)
Peach Flat(1)
Tomato Yellow(1)
Granadilla(1)
Huckleberry(1)
Cherry Wax Red(1)
Images per page: 50
1 – 50 of many
final_dataset_v2.csv
mergeddataset_....xlsx
sensors-activity-....rar
FORTH_TRACE_....zip
sensors-activity-....rar
Show All

- Model


console.cloud.google.com/vision/datasets/ICN5291316695544102912;modelId=ICN2863983698775113728/evaluate?project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
Vision
Dashboard
Datasets
Models
fruits_1614022549170
LABEL STATS
EXPORT DATA
IMPORT
IMAGES
TRAIN
EVALUATE
TEST & USE
Single-Label Classification
Model
fruits_1614022549_20210222035140
Confidence threshold
0.5
Filter labels
Grape White 4 1
Grapefruit Pink 1
Grapefruit White 1
Guava 1
Hazelnut 1
Huckleberry 1
Kaki 1
Kiwi 1
Kohlrabi 1
Kumquats 1
Lemon 1
Lemon Meyer 1
Limes 1
Lychee 1
Mandarine 1
All labels
Total images 60,934
Test items 6,755
Precision 100%
Recall 99.84%
Use the slider to see which confidence threshold works best for your model on the precision-recall tradeoff curve.
Learn more about these metrics and graphs.
100%
0%
Precision
Recall
Confusion matrix
Item counts
This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). Note that this table is limited to the 10 most confused labels. You can download the entire confusion matrix as a CSV file.
sensors-activity-....rar
FORTH_TRACE_....zip
sensors-activity-....rar
activity-recogniti....rar
mpud.zip
Show All

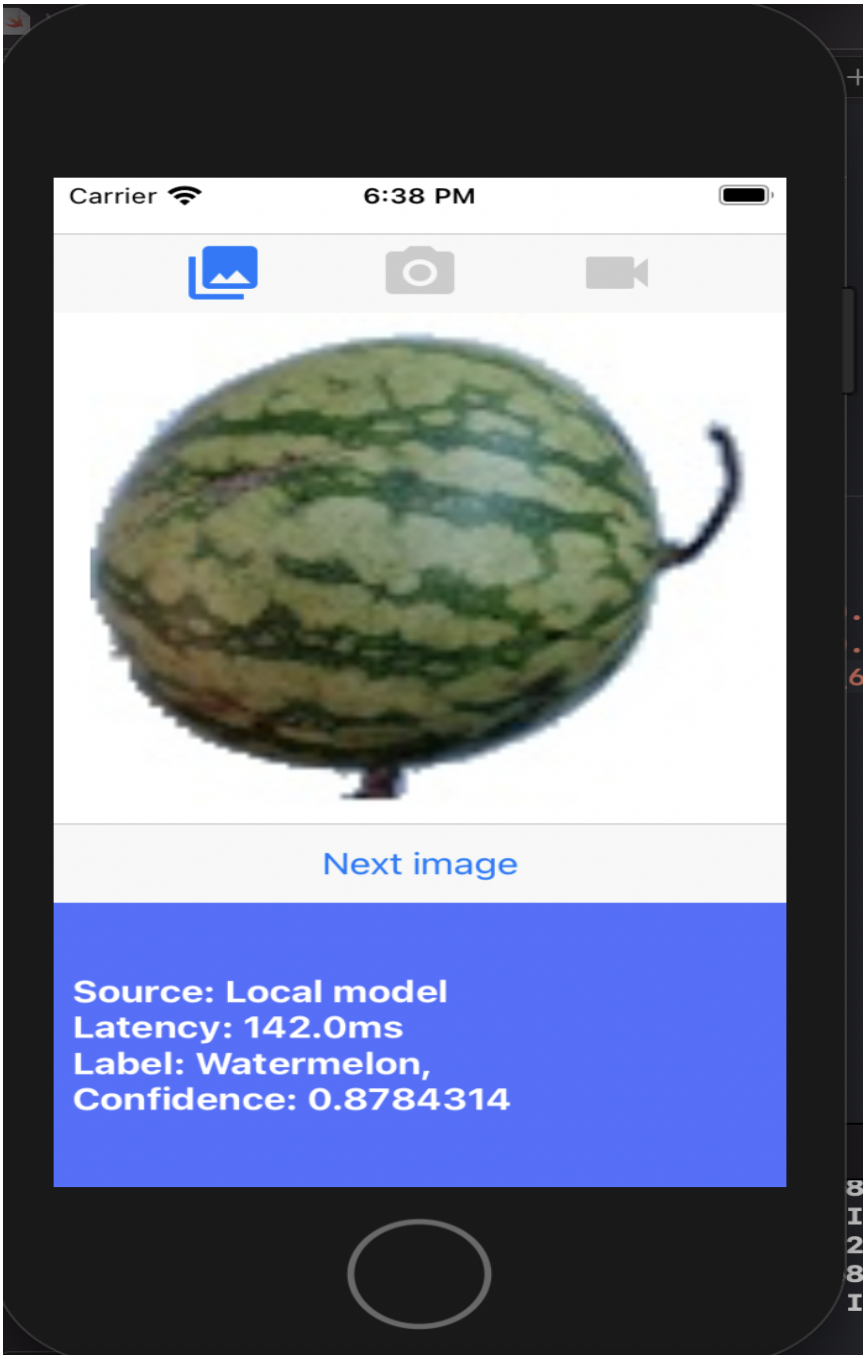




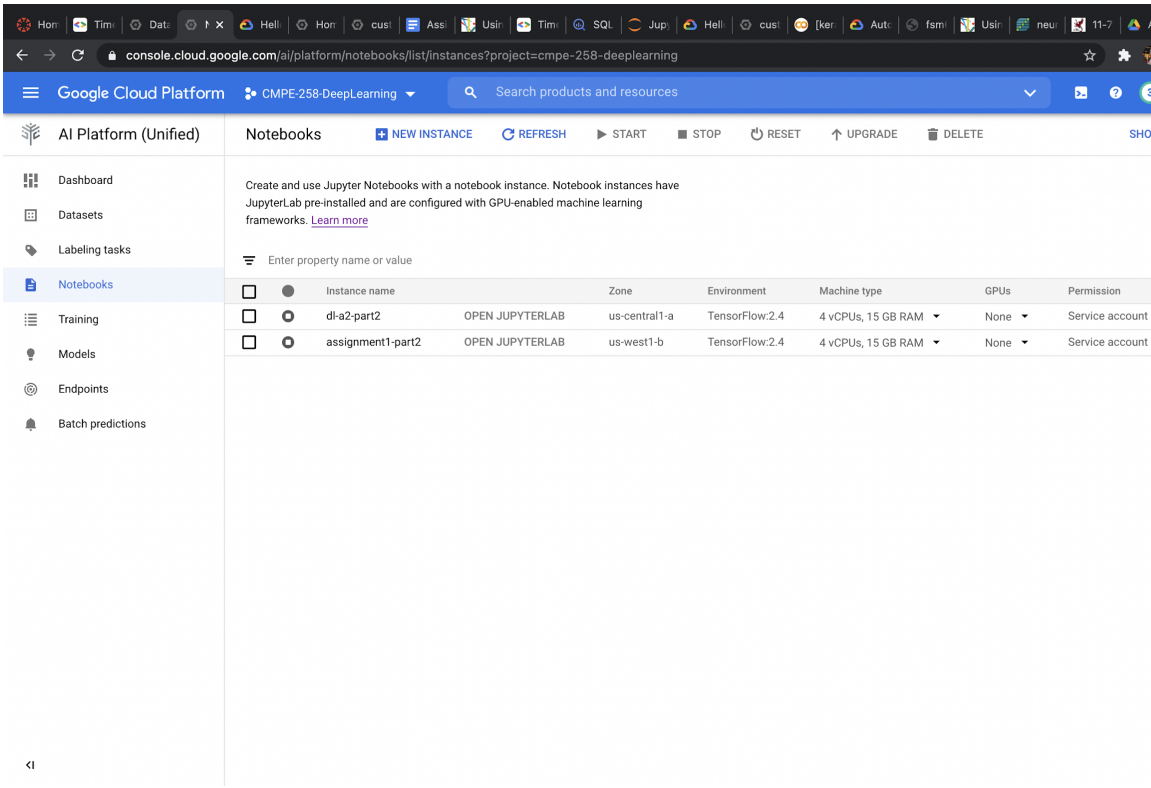
This table shows how often the model classified each label correctly (in blue), and which labels were most often confused for that label (in gray). **Note that this table is limited to the 10 most confused labels.** You can download the entire confusion matrix as a CSV file.

True Label \ Predicted Label	Apple Red Yellow 2	Plum 2	Watermelon	Tomato Yellow	Kohlrabi	Mango Red	Papaya	Cucumber Ripe 2	Cherry Wax Black	Onion Red Peeled
Apple Red Yellow 2	100%	-	-	-	-	-	-	-	-	-
Plum 2	-	100%	-	-	-	-	-	-	-	-
Watermelon	-	-	100%	-	-	-	-	-	-	-
Tomato Yellow	-	-	-	100%	-	-	-	-	-	-
Kohlrabi	-	-	-	-	100%	-	-	-	-	-
Mango Red	-	-	-	-	-	100%	-	-	-	-
Papaya	-	-	-	-	-	-	100%	-	-	-
Cucumber Ripe 2	-	-	-	-	-	-	-	100%	-	-
Cherry Wax Black	-	-	-	-	-	-	-	-	100%	-

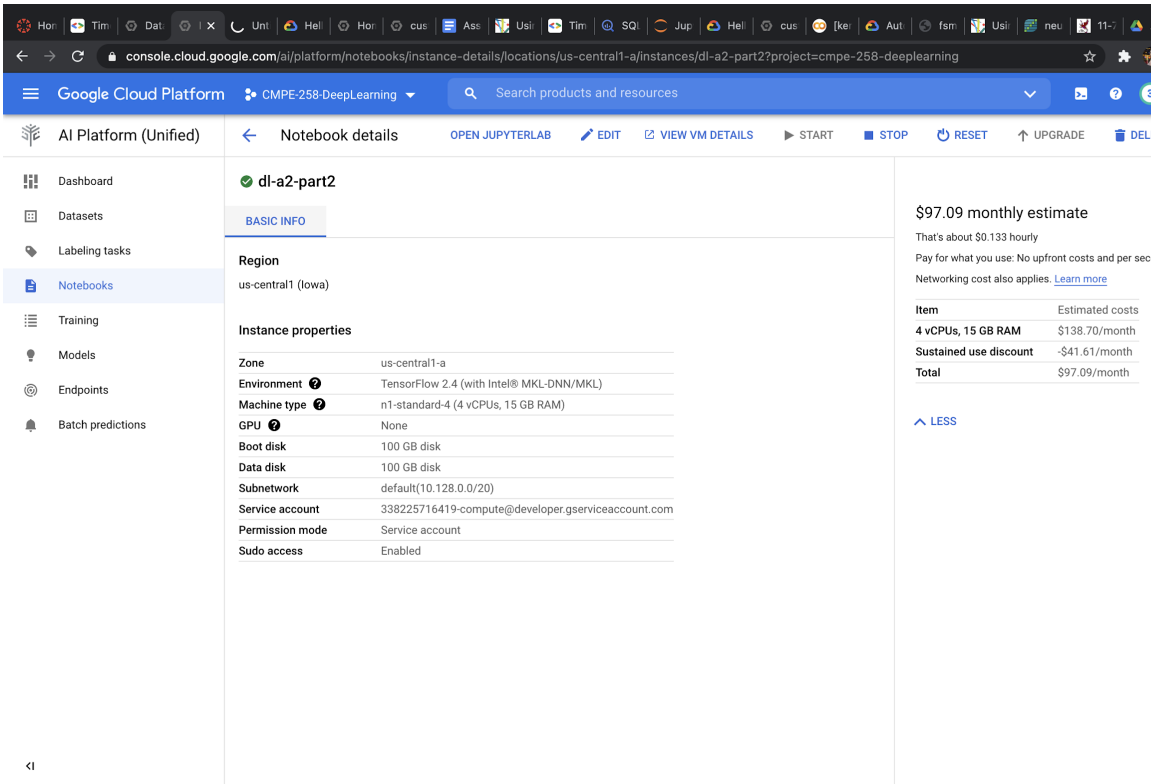
- Downloaded TF Lite and Deployed on IOS Simulator



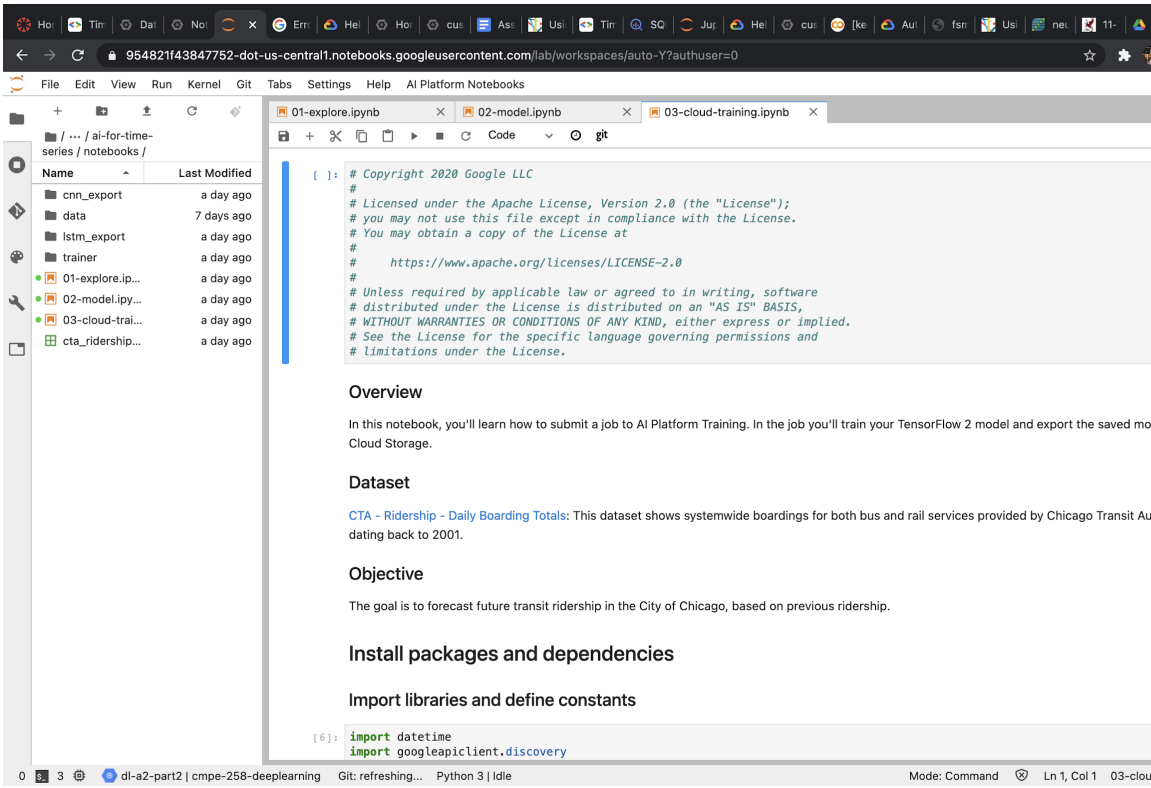
- II - Execute automl vision and timeseries forcasting models
  - Setup Notebook Environment
    - Enable API



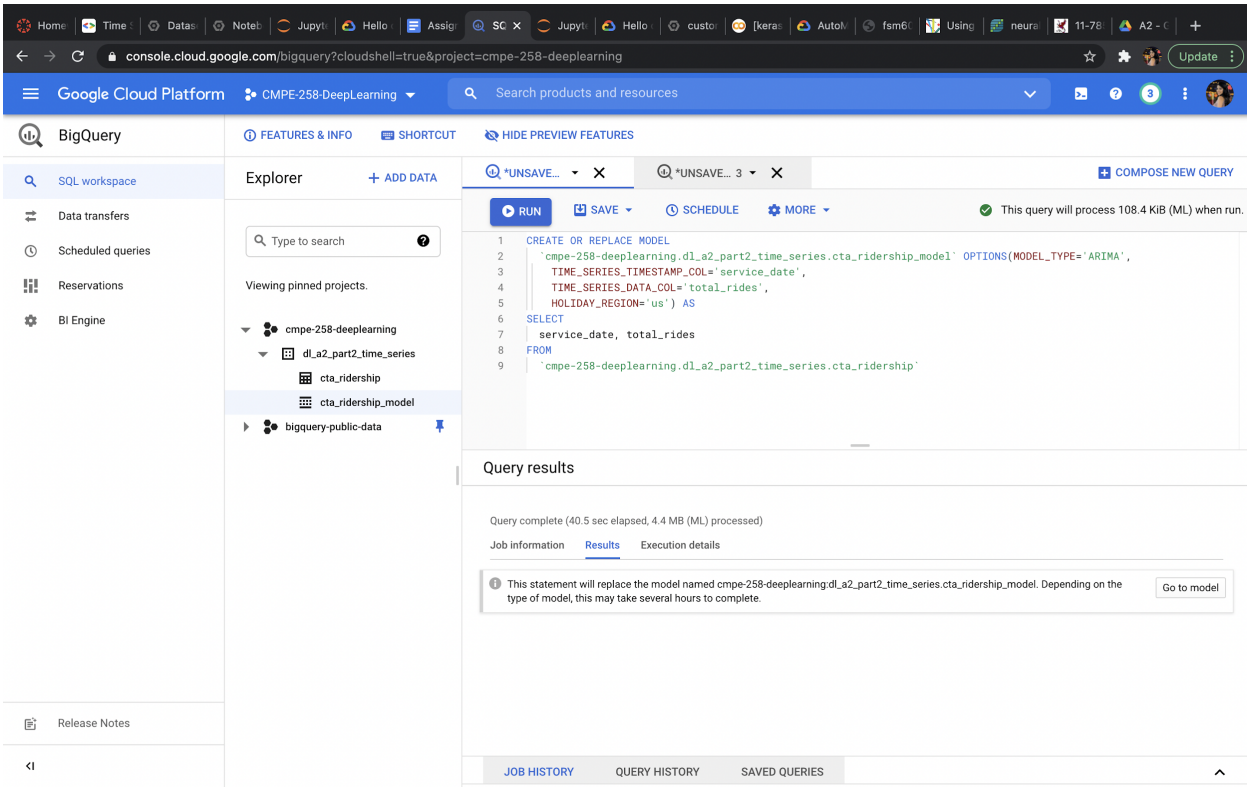
- Create AI Platform Notebook

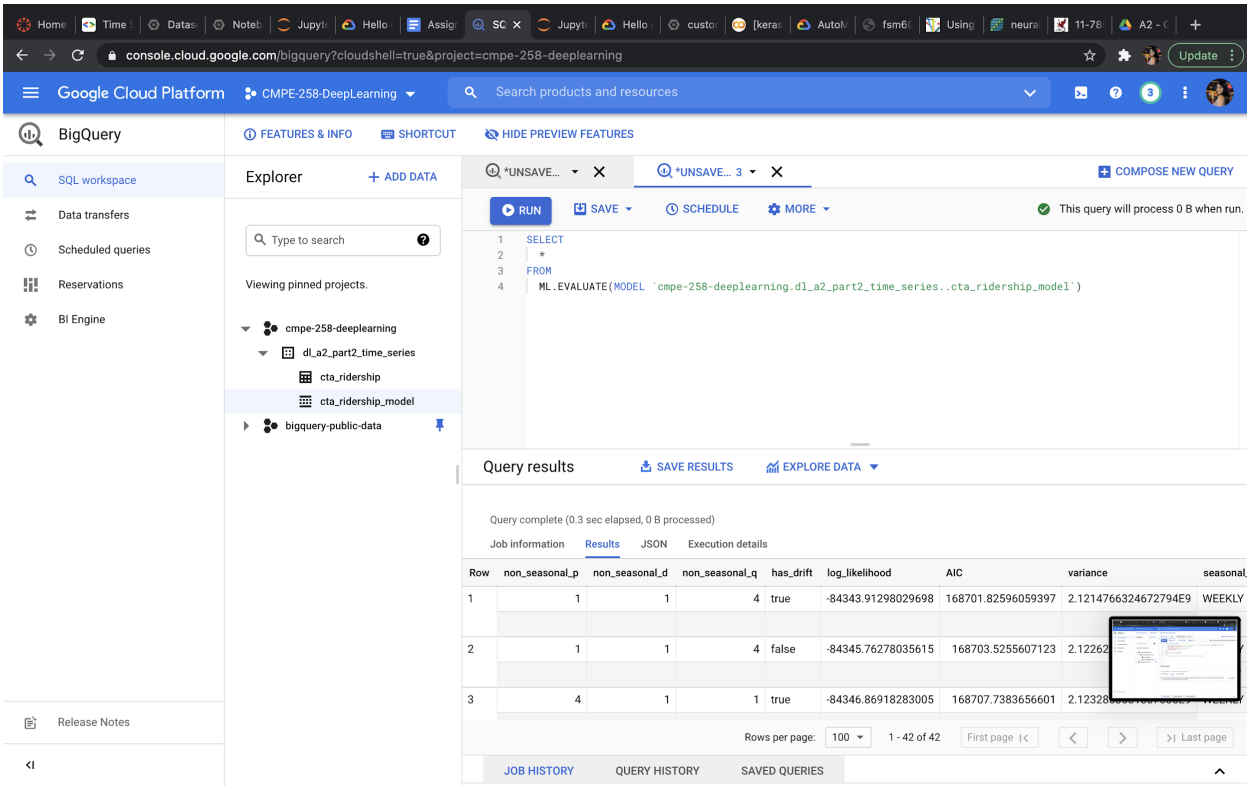


- Downloaded the lab Material from terminal



- Model with time series forecasting




console.cloud.google.com/bigquery?cloudshell=true&project=cmpe-258-deeplearning
Google Cloud Platform
CMPE-258-DeepLearning
Search products and resources
BigQuery
FEATURES & INFO
SHORTCUT
HIDE PREVIEW FEATURES
SQL workspace
Data transfers
Scheduled queries
Reservations
BI Engine
Release Notes
Explorer
ADD DATA
Type to search
Viewing pinned projects.
cmpe-258-deeplearning
dl_a2_part2_time_series
cta_ridership
cta_ridership_model
bigquery-public-data
COMPOSE NEW QUERY
RUN
SAVE
SCHEDULE
MORE
This query will process 0 B when run.
SELECT
*
FROM
ML.EVALUATE(MODEL `cmpe-258-deeplearning.dl_a2_part2_time_series..cta_ridership_model`)
Query results
SAVE RESULTS
EXPLORE DATA
Query complete (0.3 sec elapsed, 0 B processed)
Job information
Results
JSON
Execution details
Row
non_seasonal_p
non_seasonal_d
non_seasonal_q
has_drift
log_likelihood
AIC
variance
seasonal
1
1
1
4
true
-84343.91298029698
168701.82596059397
2.1214766324672794E9
WEEKLY
2
1
1
4
false
-84345.76278035615
168703.5255607123
3
4
1
1
true
-84346.86918283005
168707.7383656601
Rows per page:
100
1 - 42 of 42
First page
Last page
JOB HISTORY
QUERY HISTORY
SAVED QUERIES

- Cleanup