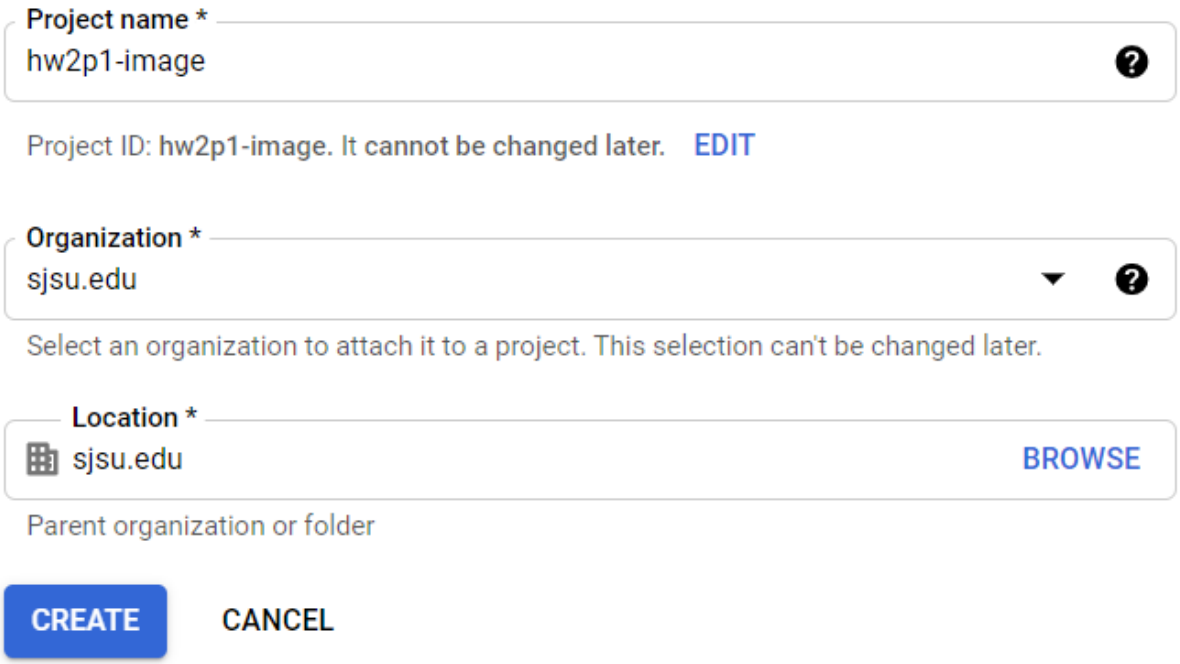
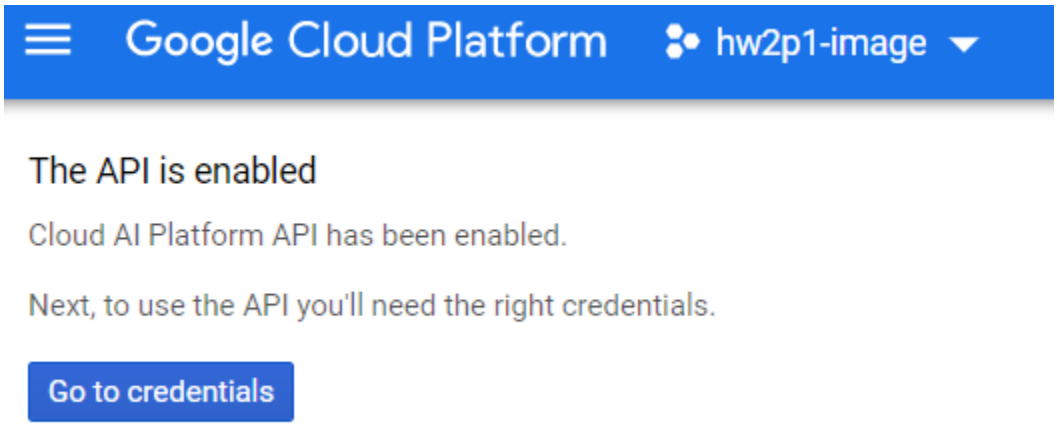
1. Tabular Data:

Here I am using the same project that I have created for Image classification AutoML.

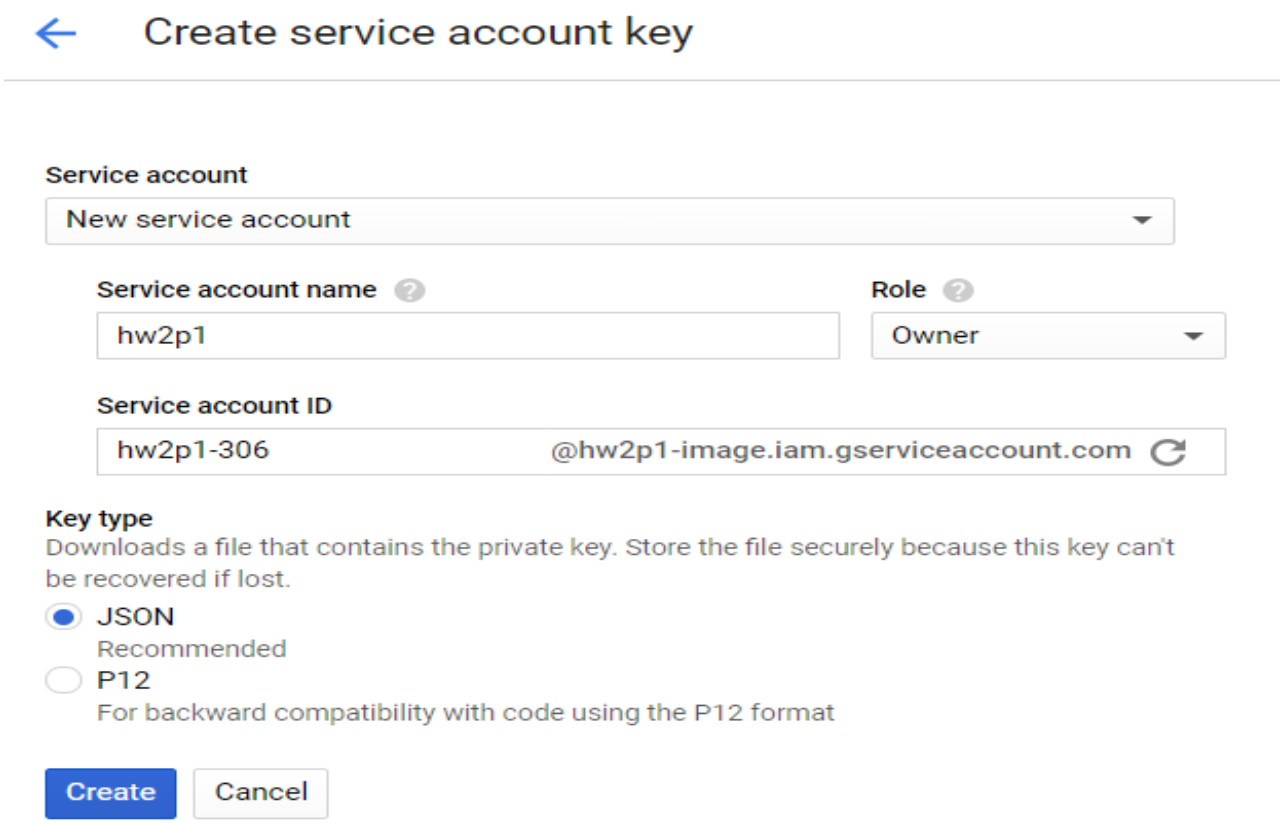
1. Project id: hw2p1-image



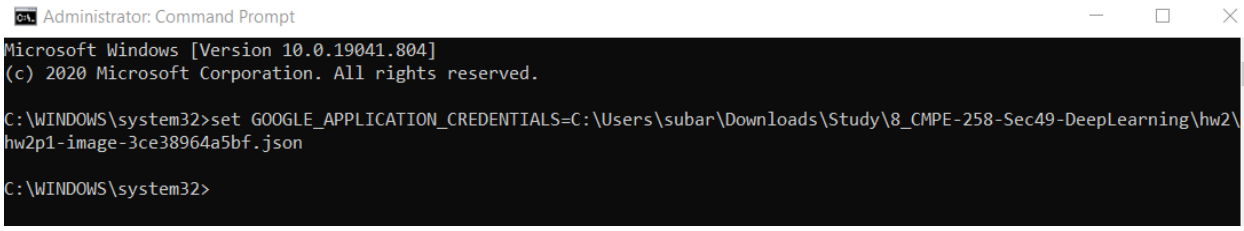
2. API is enabled



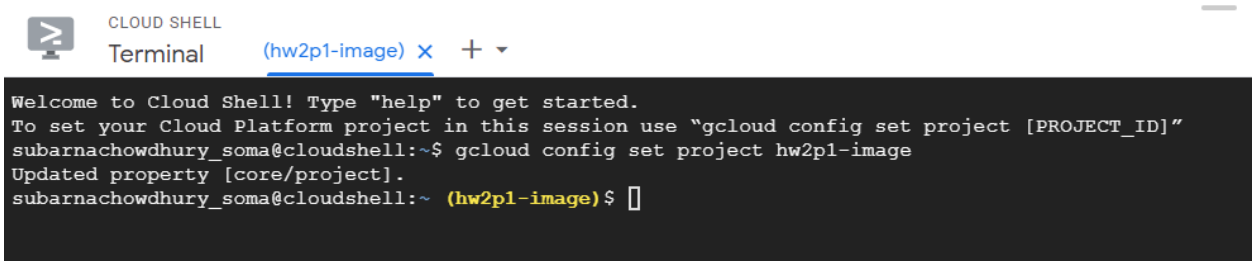
3. Authentication Setup



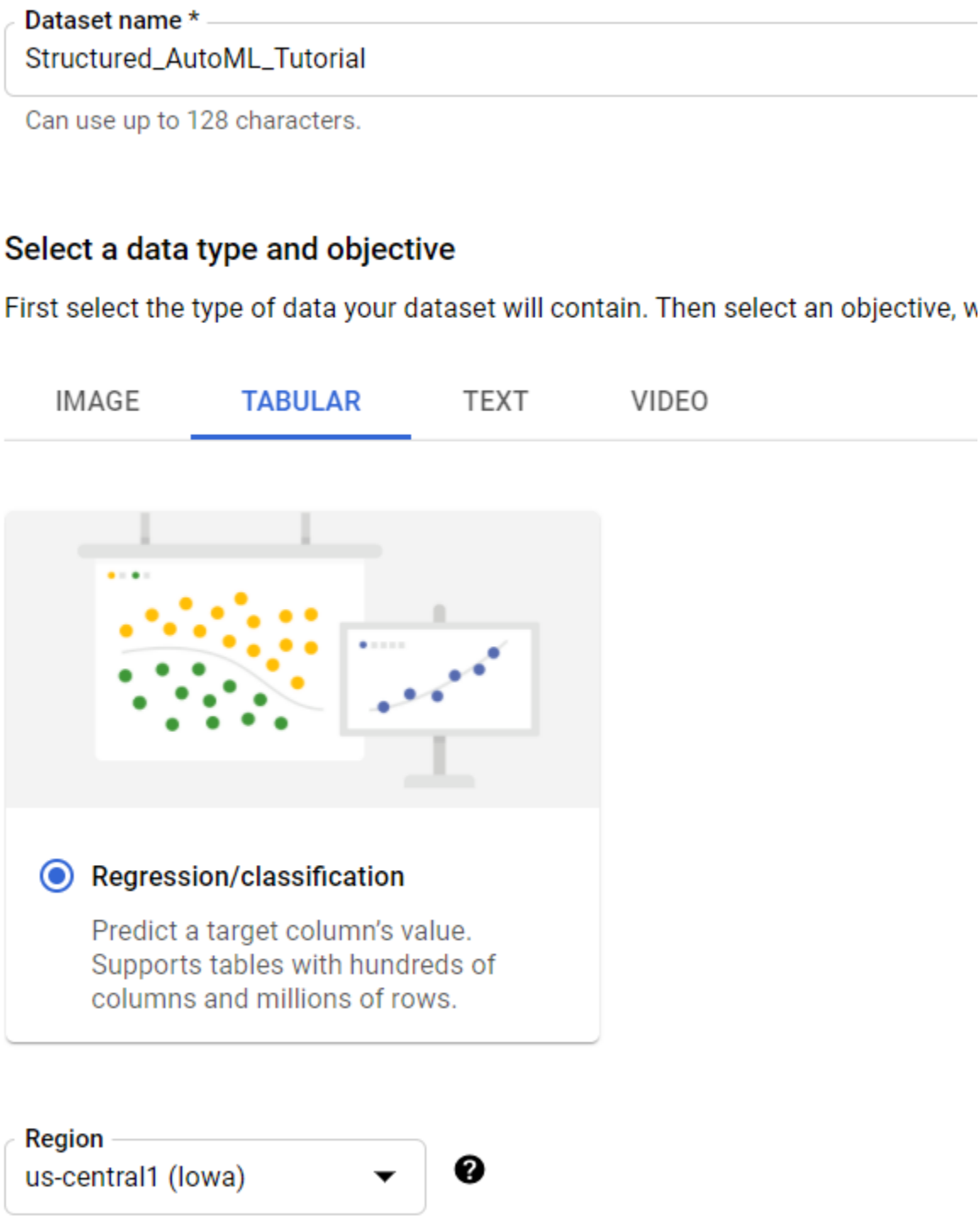
4. Set environment variable



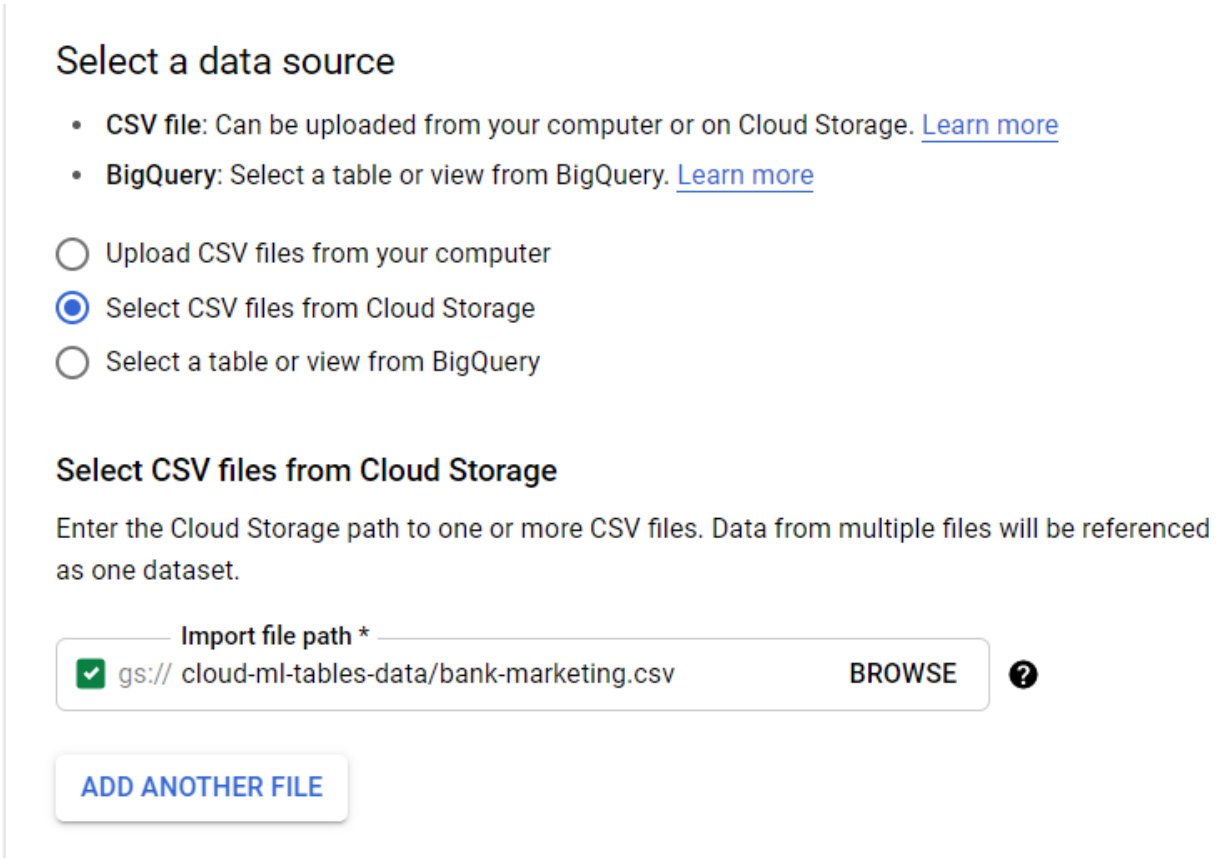
5. Cloud Console:



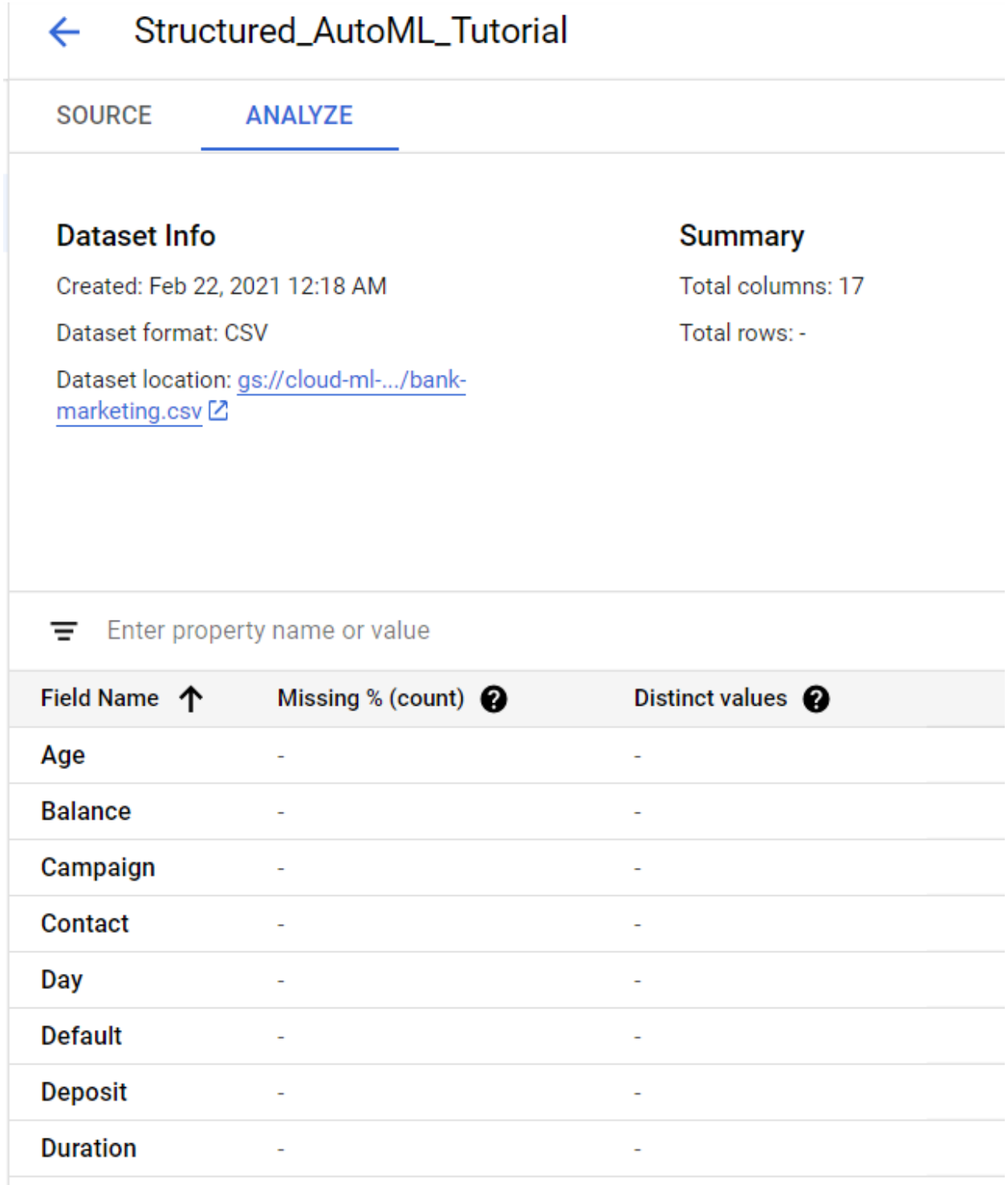
6. Create Dataset '`Structured_AutoML_Tutorial`'



7. Import Data from Storage



8. Analyze Pan:

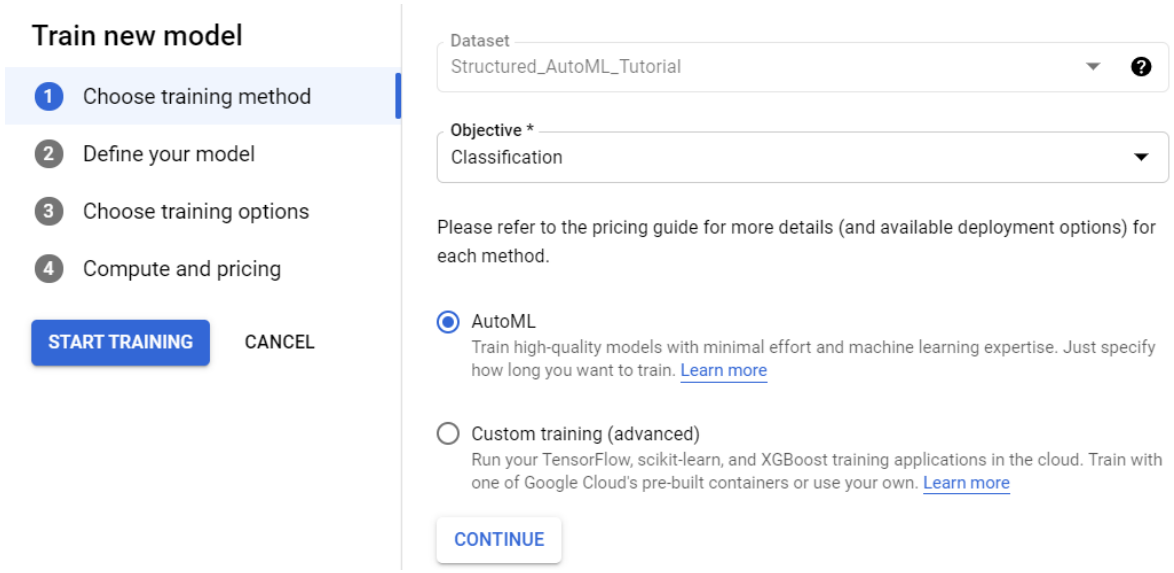


9. Generated Statistics

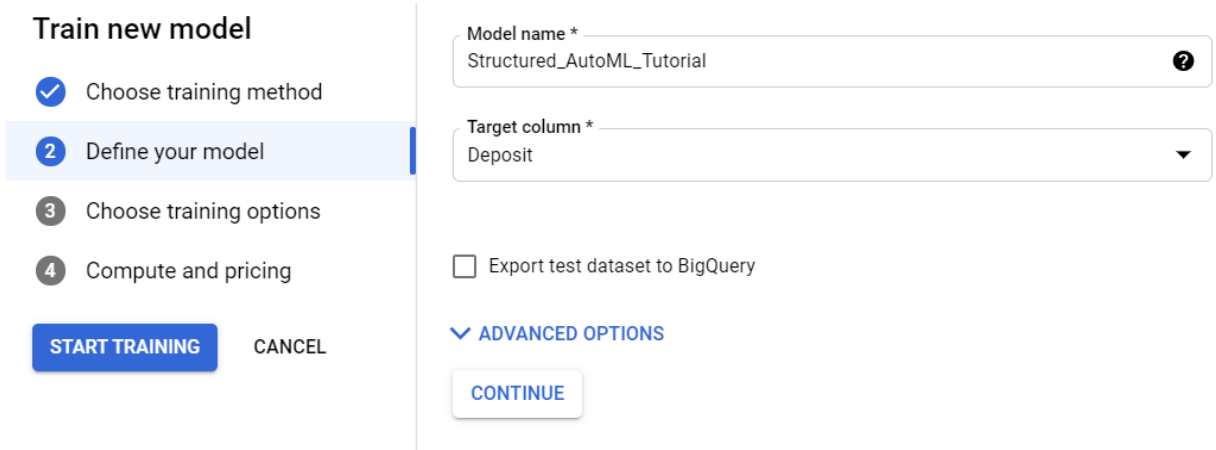
Field Name	Missing % (count)	Distinct values
Age	-	77
Balance	-	7168
Campaign	-	48
Contact	-	3
Day	-	31
Default	-	2
Deposit	-	2
Duration	-	1573
Education	-	4
Housing	-	2
Job	-	12
Loan	-	2
MaritalStatus	-	3
Month	-	12
PDays	-	559
POutcome	-	4
Previous	-	41

Ro

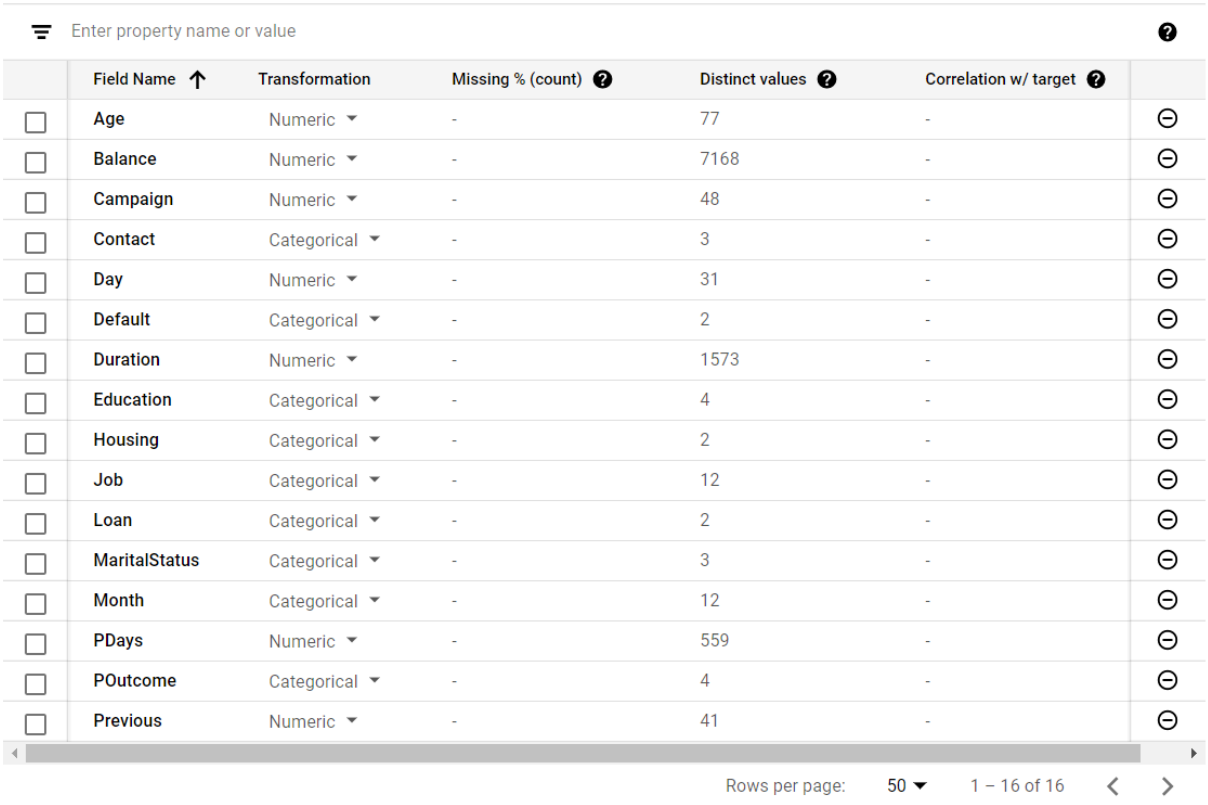
10. Selecting Training Model: `Structured_AutoML_Tutorial`

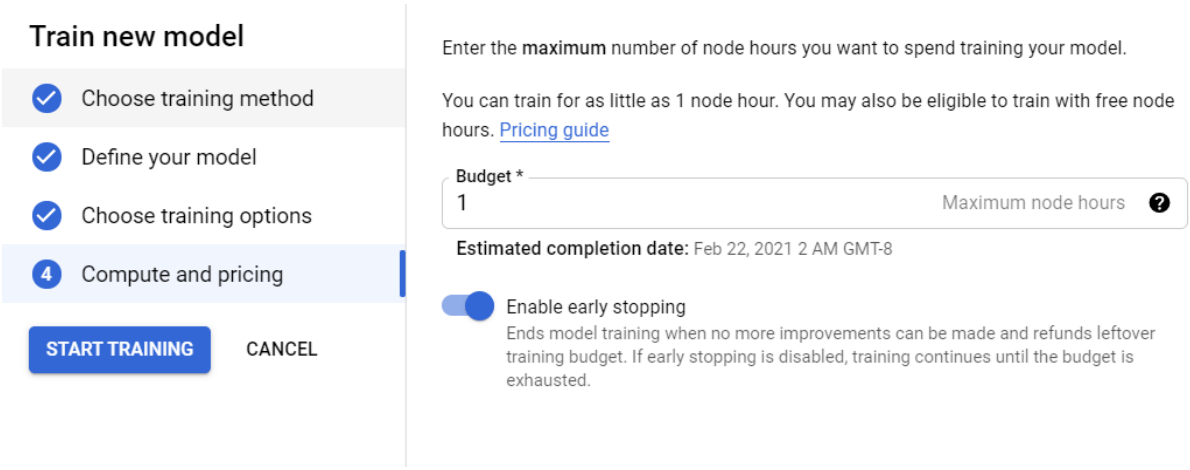


11. Defined the model:



12. Training Budget





13. Got Email Notification about successful training

AI Platform finished training model "Structured_AutoML_Tutorial"

AI Platform <noreply-aiplatform@google.com>
to me

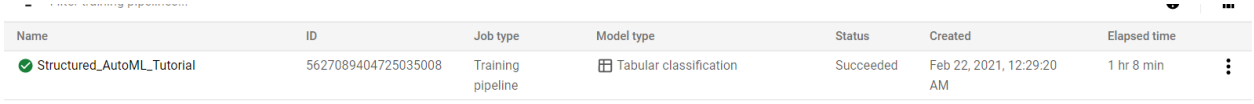
Hello AI Platform Customer,

AI Platform finished training model "Structured_AutoML_Tutorial".
Additional Details:
Operation State: Succeeded
Resource Name:
projects/589827040428/locations/us-central1/trainingPipelines/5627089404725035008

To continue your progress, go back to your training pipeline using
https://console.cloud.google.com/ai/platform/models?authuser=1&project=hw2p1-image

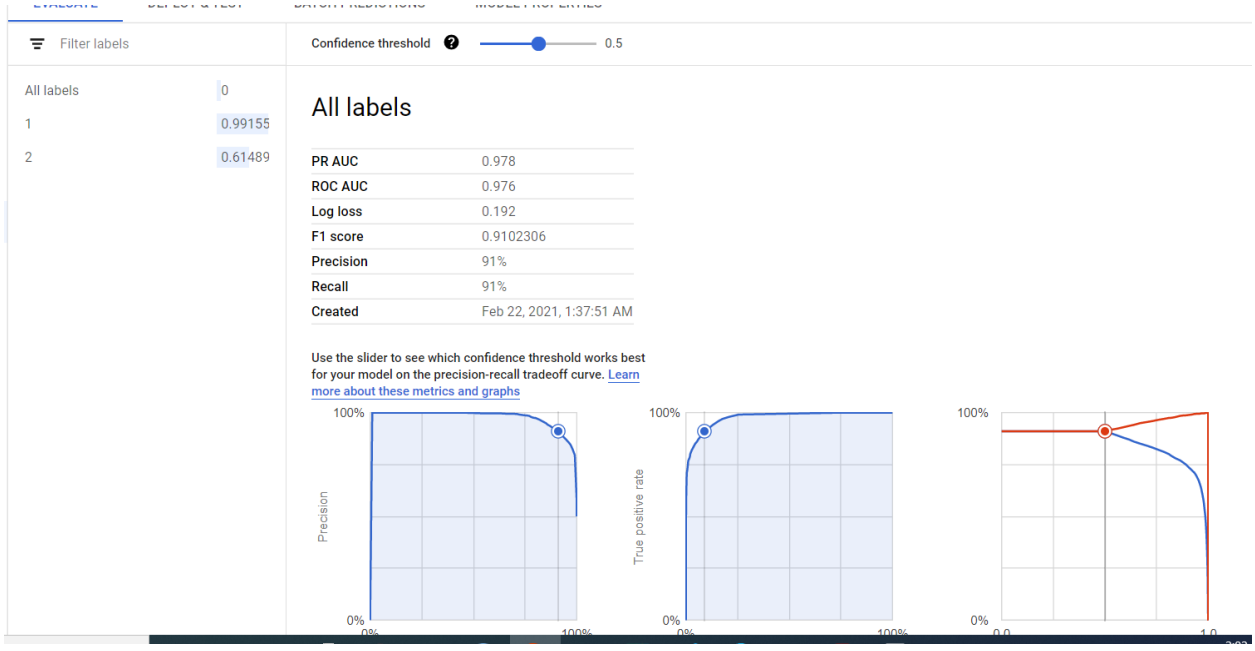
Sincerely,
The Google Cloud AI Team

14. Trained Model: It has taken 1+ hours to train

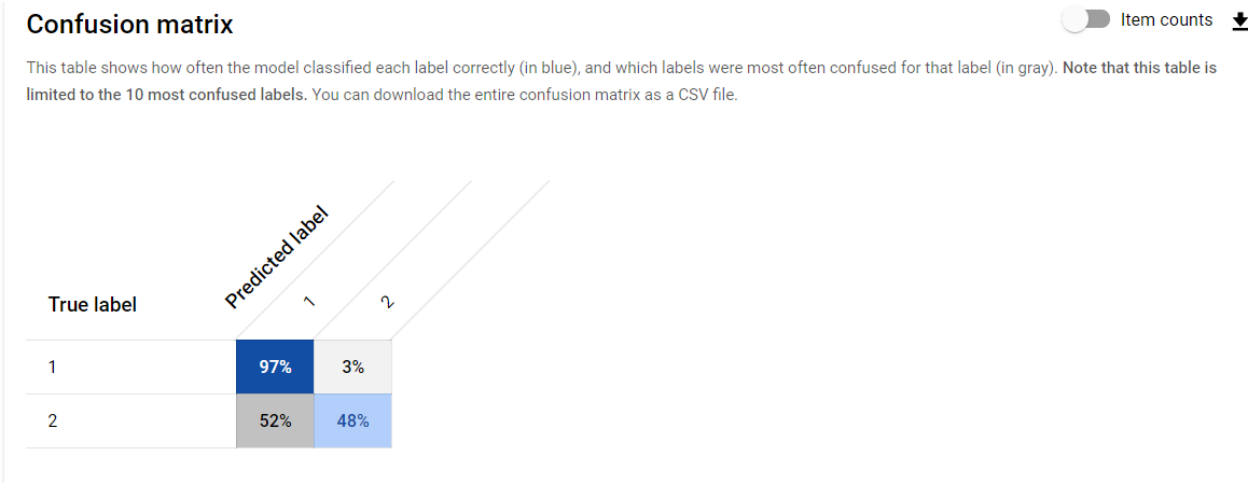


Name	ID	Job type	Model type	Status	Created	Elapsed time
Structured_AutoML_Tutorial	5627089404725035008	Training pipeline	Tabular classification	Succeeded	Feb 22, 2021, 12:29:20 AM	1 hr 8 min

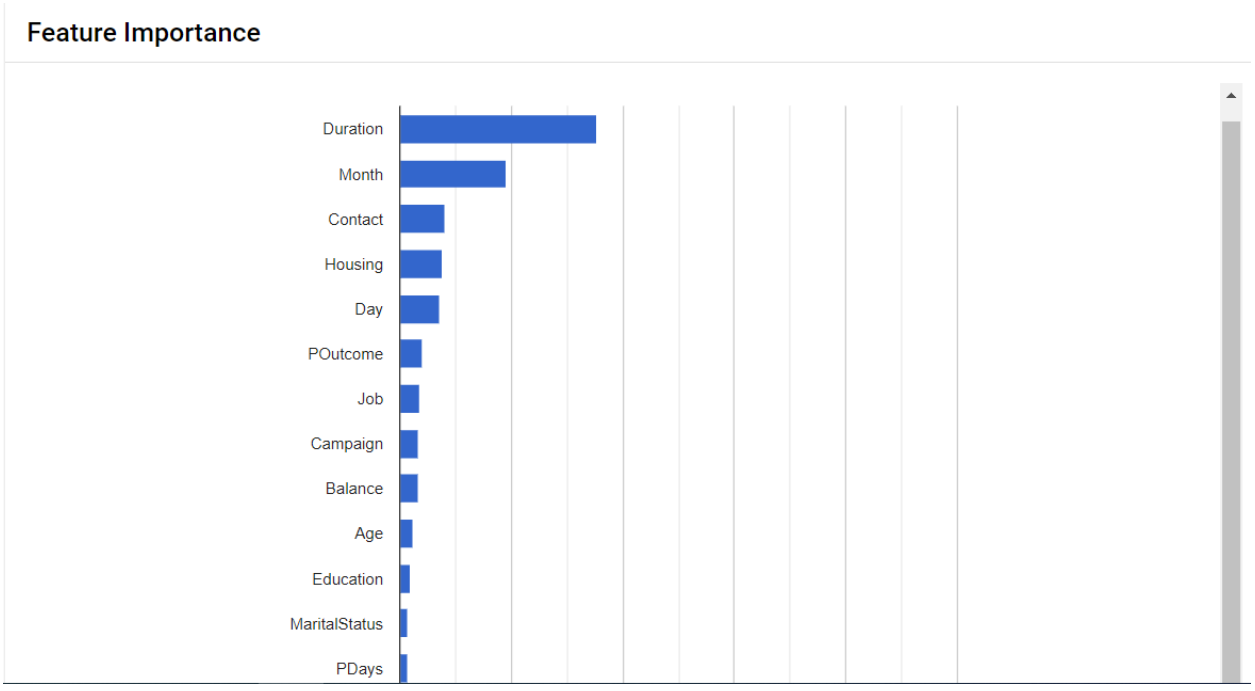
15. Evaluation



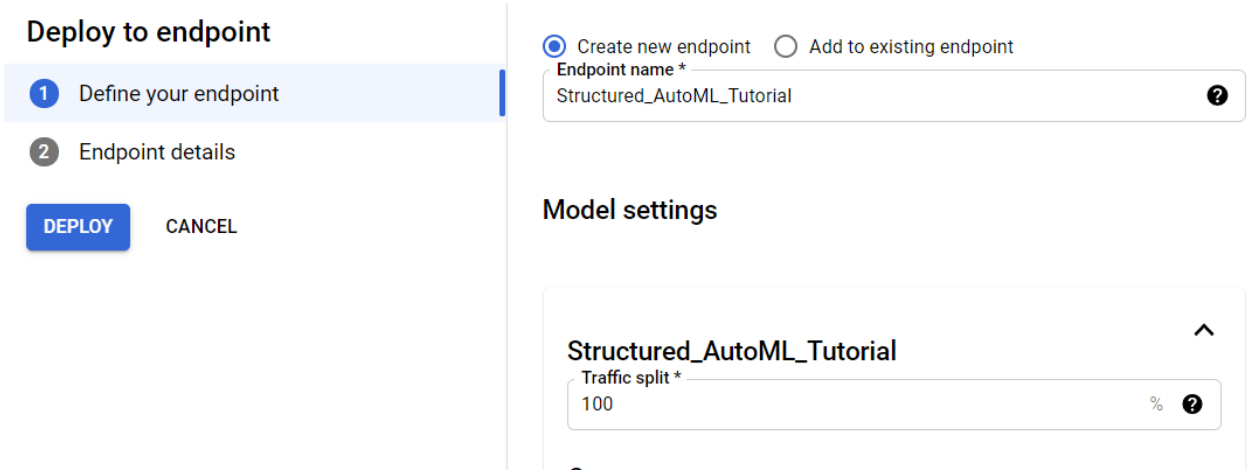
16. Confusion Matrix



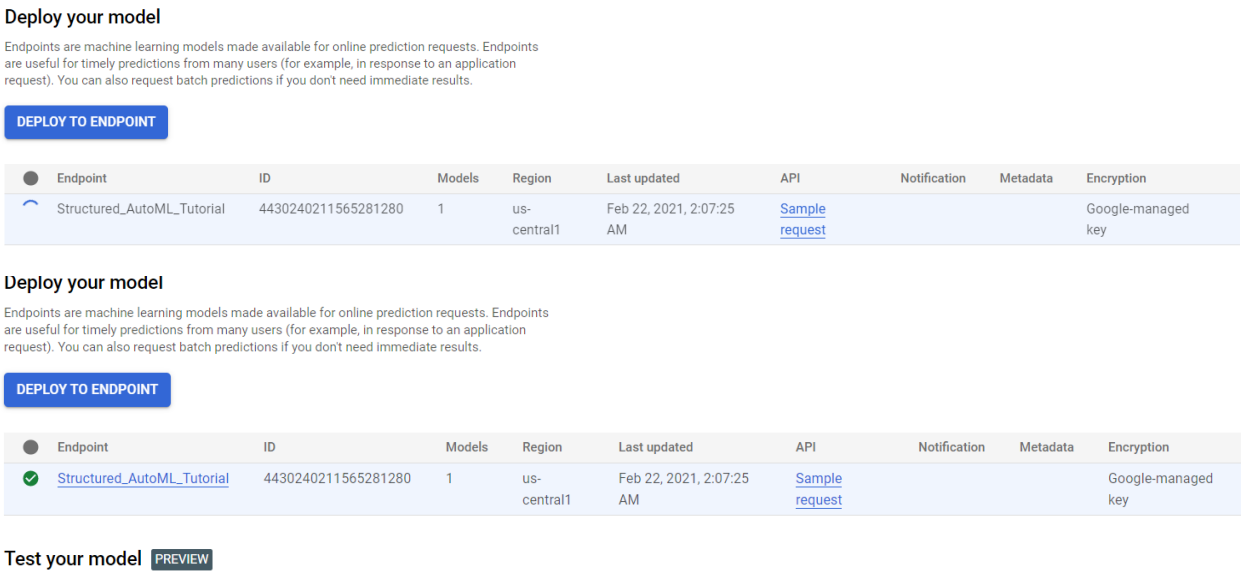
17. Feature Importance :



18. Created Deployment Endpoint '`Structured_AutoML_Tutorial`'



19. Successful Deployment



AI Platform finished creating endpoint "Structured_AutoML_Tutorial" Inbox ×

AI Platform <noreply-aiplatform@google.com>
to me

Hello AI Platform Customer,

AI Platform finished creating endpoint "Structured_AutoML_Tutorial".
Additional Details:
Operation State: Succeeded
Resource Name:
projects/589827040428/locations/us-central1/endpoints/4430240211565281280

To continue your progress, go back to your endpoint using
https://console.cloud.google.com/ai/platform/locations/us-central1/models/4731893425668882432/deploy?authuser=1&project=hw2p1-image

Sincerely,
The Google Cloud AI Team

20. Prediction 100% Correct

Feature column name	Type	Required or optional	Value	Local feature importance
Age	Text	Required	38.000000	--
Balance	Text	Required	389.000000	--
Campaign	Text	Required	2.000000	--
Contact	Text	Required	cellular	--
Day	Text	Required	15.000000	--
Default	Text	Required	no	--
Duration	Text	Required	171.000000	--

Test your model PREVIEW

Feature column name	Type	Required or optional	Value	Local feature importance
Age	Text	Required	38.000000	0
Balance	Text	Required	389.000000	0
Campaign	Text	Required	2.000000	0
Contact	Text	Required	cellular	0

Predict label

Prediction result

1

Confidence score: 0.991442084312439

21. Removed Storage

```
CommandException: Encountered non-existent bucket during listing
subarnachowdhury_soma@cloudshell:~ (hw2p1-image)$ gsutil -m rm -rf gs://hw2p1-image-lcm
Removing gs://hw2p1-image-lcm/text/happiness.csv#1613948229909685...
/ [1/1 objects] 100% Done
Operation completed over 1 objects.
Removing gs://hw2p1-image-lcm/...
subarnachowdhury_soma@cloudshell:~ (hw2p1-image)$
```