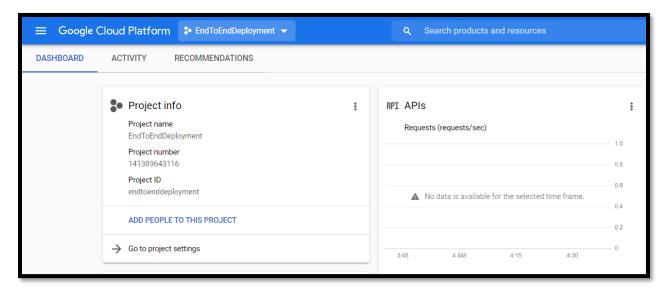
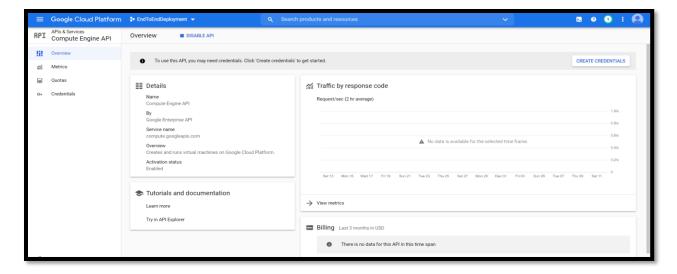
## **End-To-End deployment: Fraud detection using Vertex-Al**

Step 1: Create new project in GCP.

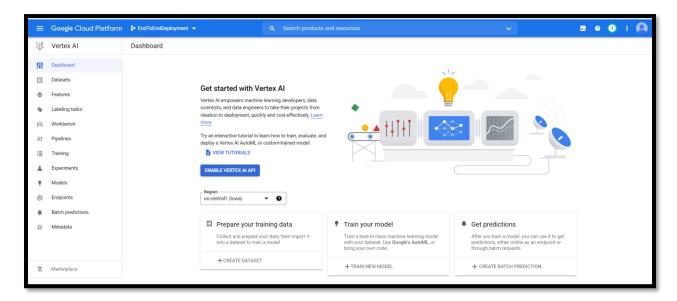


Step 2: Enable compute Engine API

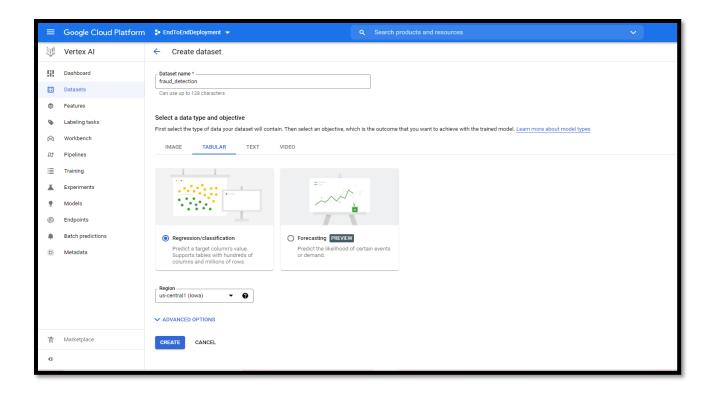


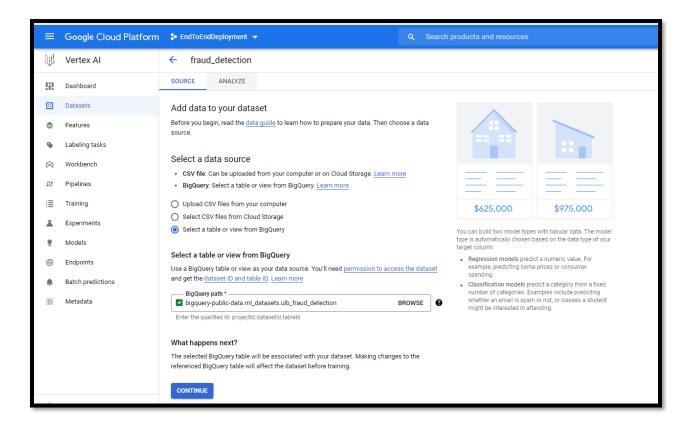


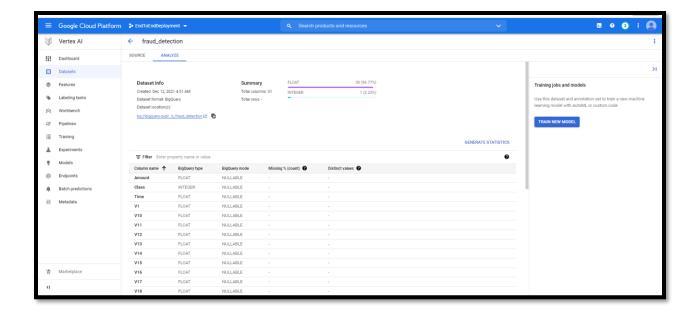
Step 3: Enable the Vertex AI API



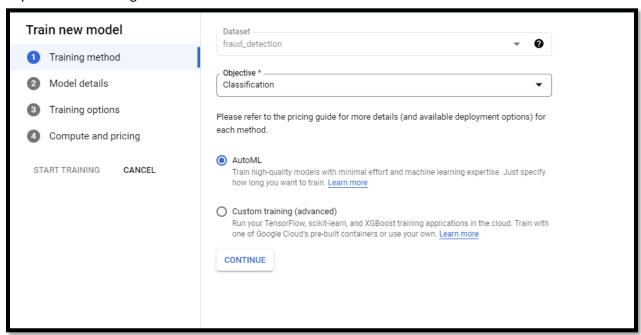
Step 4: Create a dataset

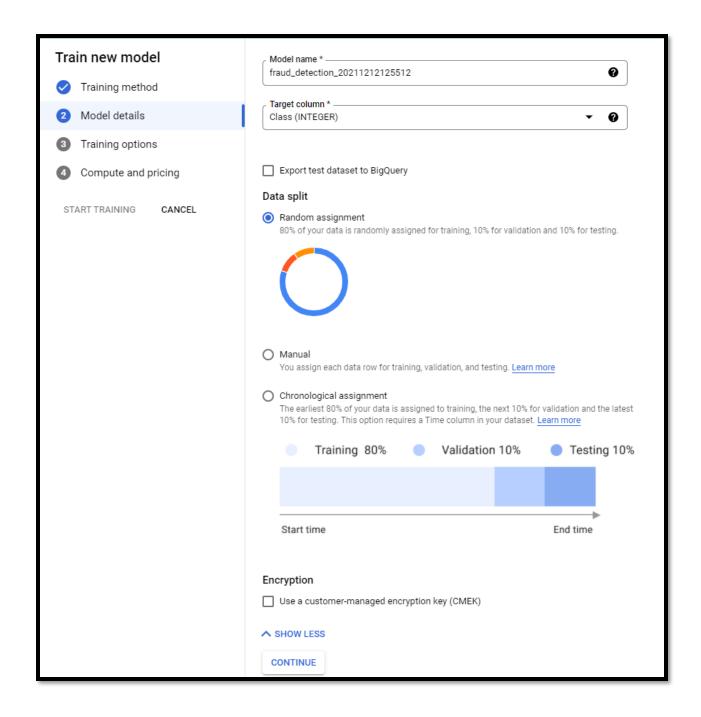


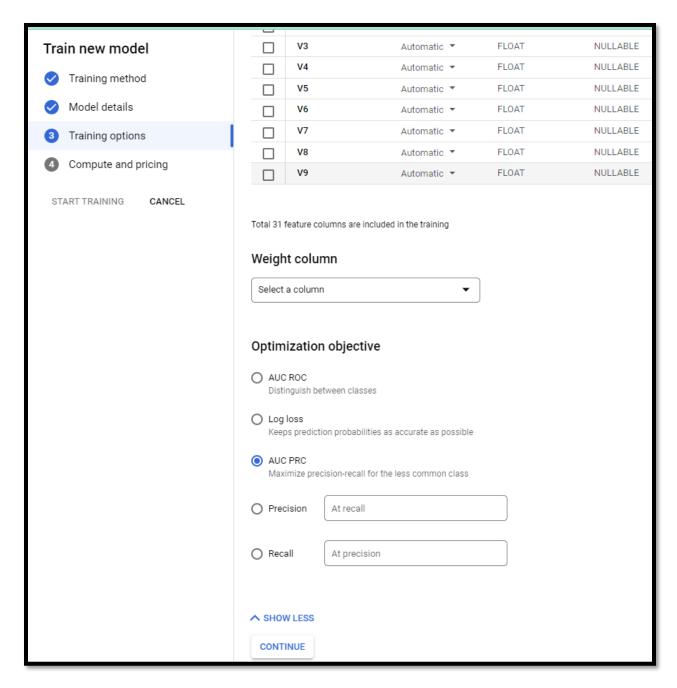


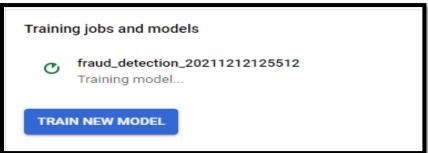


Step 5: Model Training

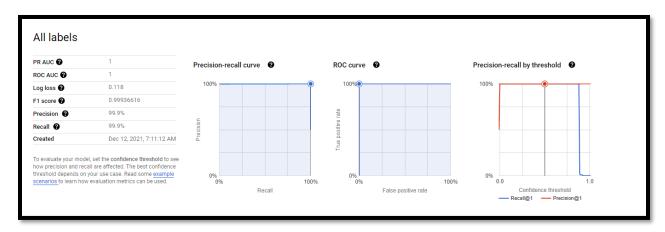


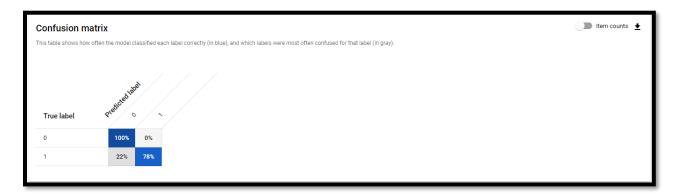


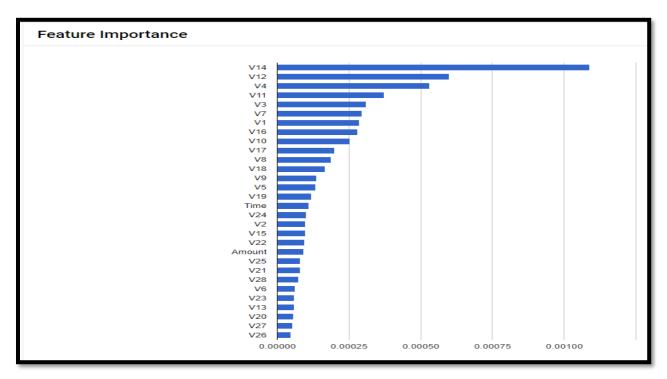




Step 6: Understand the confusion matrix after training.

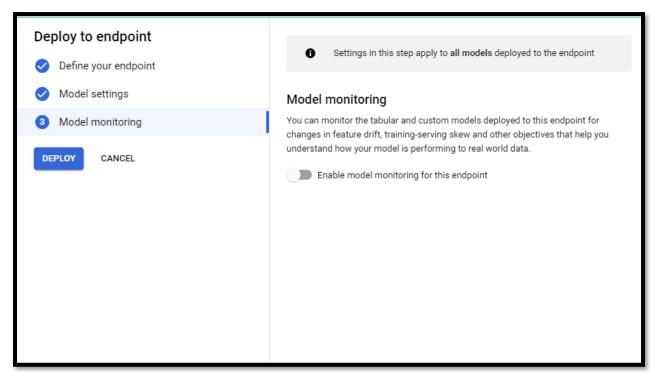


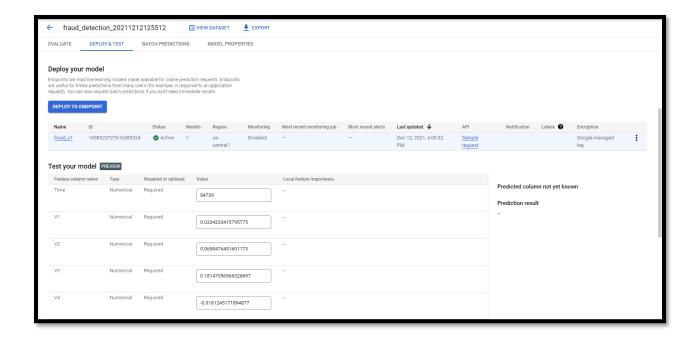


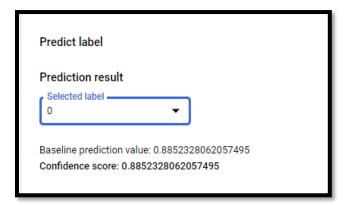


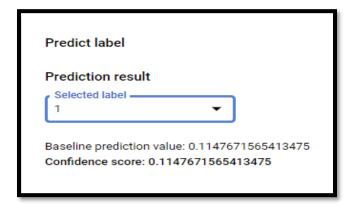
## Step 7: Creating an end point for deployment.



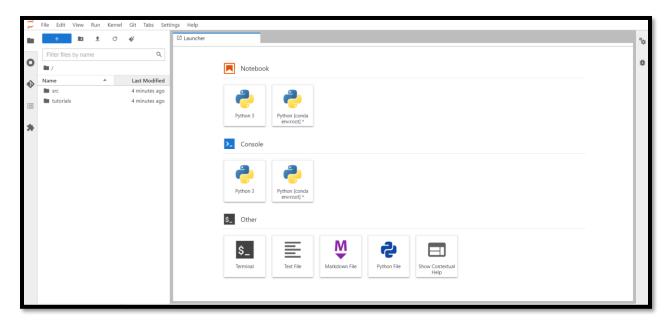








## Step 8: Prediction using vertex AI



```
response = endpoint.predict([test_instance])
print('API response: ', response)

API response: Prediction(predictions=[{'classes': ['0', '1'], 'scores': [0.8859193921089172, 0.1140805631875992]}], deployed_model_id='7420
920635209023488', explanations=None)
```

Complete Code is available in the Notebook PDF attached in same folder