Expose Model to End Point using VerteX AI -SDK

This phase is where you have finished successfully trained your Model and Now we are going to expose the Trained model as an API

**Step-1: In your notebook, run the following in a cell to install the Vertex SDK:**

!pip3 install google-cloud-aiplatform --upgrade --user

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**Step-2: Import SDK and Create Reference to the EndPoints you just deployed.**

from google.cloud import aiplatform

endpoint = aiplatform.Endpoint(

endpoint\_name="projects/YOUR-PROJECT-NUMBER/locations/us-central1/endpoints/YOUR-ENDPOINT-ID"

)

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Project Number :

* Go to the Google Cloud Platform Console: https://console.cloud.google.com/.

Click the Projects tab.

* Find your project and click the Project ID value.

EndPoint ID :

* Go to the Endpoints section of the console: https://console.cloud.google.com/vertex-ai/endpoints.
* Click the name of your endpoint.
* The Endpoint ID value is displayed in the Details section.
* Once you have found your project number and endpoint ID, you can replace the corresponding values in the endpoint\_name string.

Step3: Make Predictions by entering the input parameters values.

test\_instance={

'Time': 80422,

'Amount': 17.99,

'V1': -0.24,

'V2': -0.027,

'V3': 0.064,

'V4': -0.16,

'V5': -0.152,

'V6': -0.3,

'V7': -0.03,

'V8': -0.01,

'V9': -0.13,

'V10': -0.18,

'V11': -0.16,

'V12': 0.06,

'V13': -0.11,

'V14': 2.1,

'V15': -0.07,

'V16': -0.033,

'V17': -0.14,

'V18': -0.08,

'V19': -0.062,

'V20': -0.08,

'V21': -0.06,

'V22': -0.088,

'V23': -0.03,

'V24': 0.01,

'V25': -0.04,

'V26': -0.99,

'V27': -0.13,

'V28': 0.003

}

response = endpoint.predict([test\_instance])

print('API response: ', response)

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Finally we have got the API Prediction this way, All Deployments are being done in Cloud and these endpoints alone are exposed in Front-end and thats how a ML Based WebApp works.