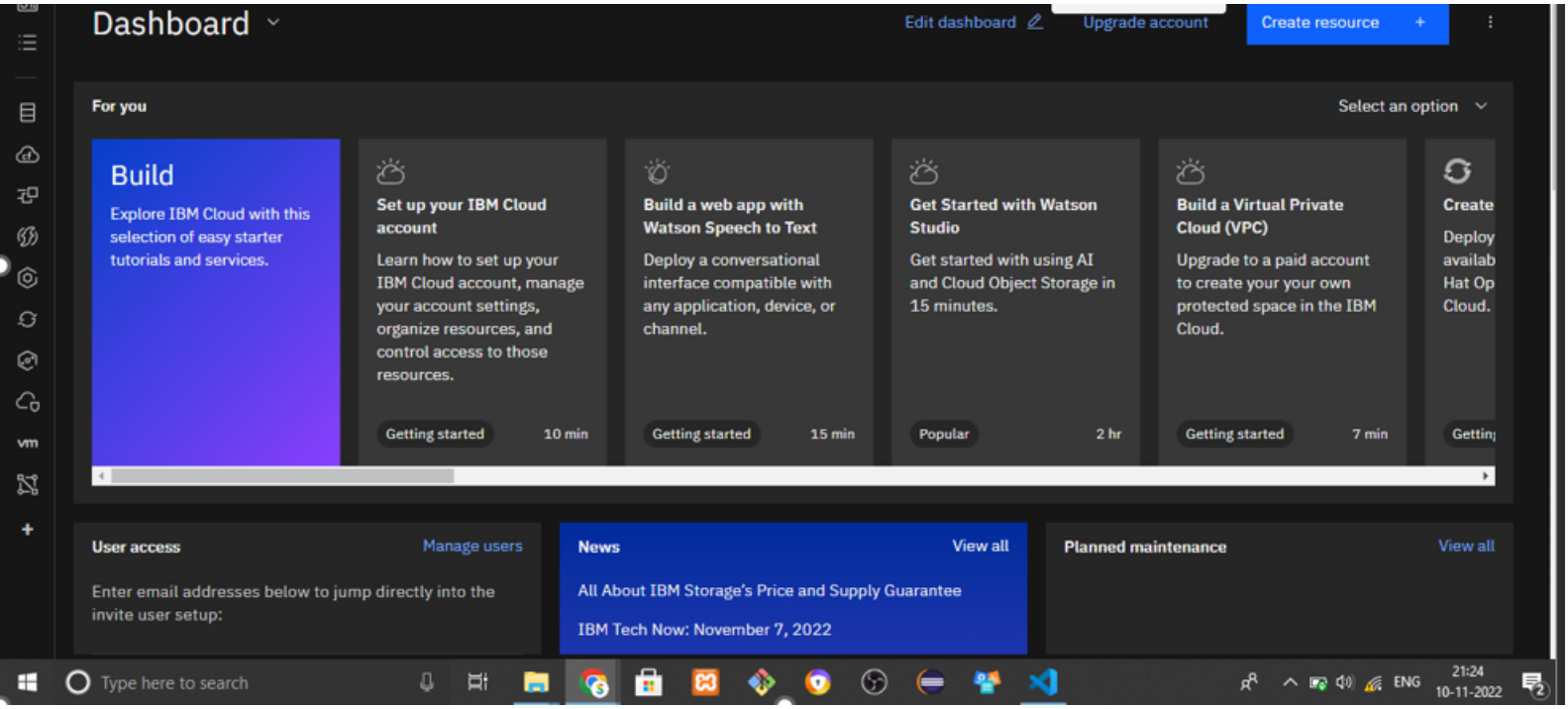
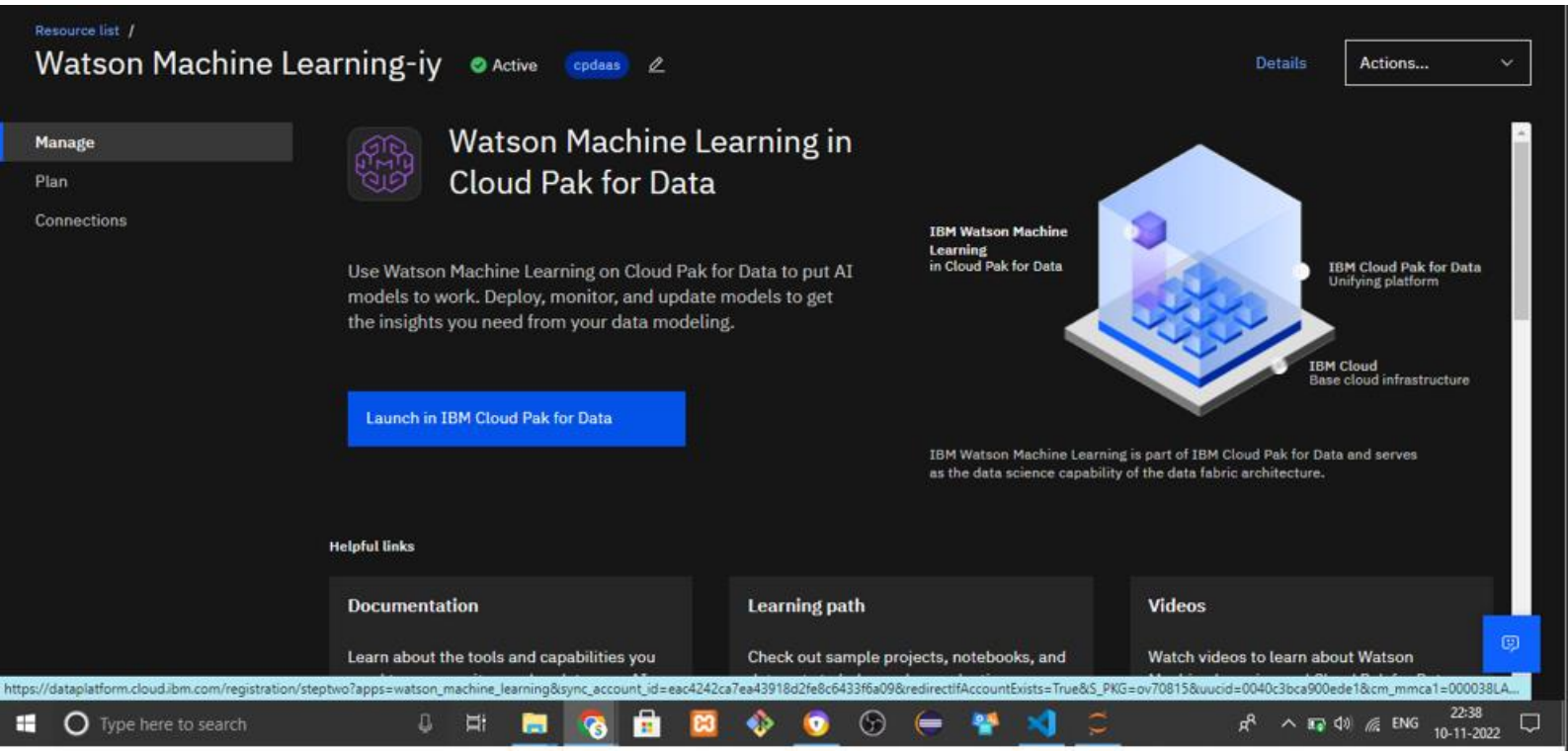
IBM WATSON MODEL DEVELOPMENT SEQUENCE

Date	18 November 2022
Team ID	PNT2022TMID18994
Project Name	Project - Real Time Communication System Powered by AI for Specially Abled
Team Lead	Navaneethan.B
Team Member	Oruganti Mahesh Babu
	Mukesh.M
	Vasanth.PM

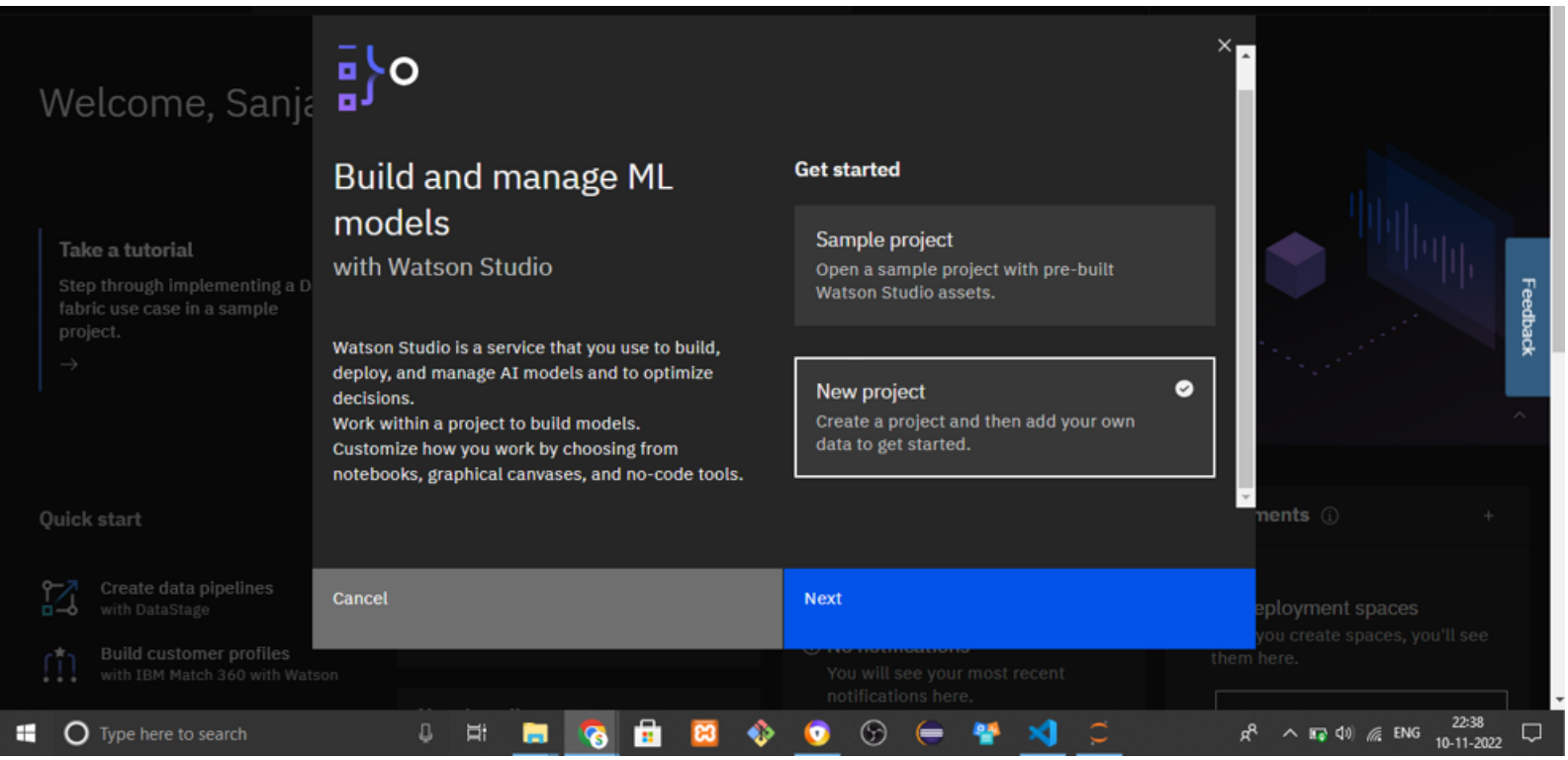
IBM CLOUD LOGIN



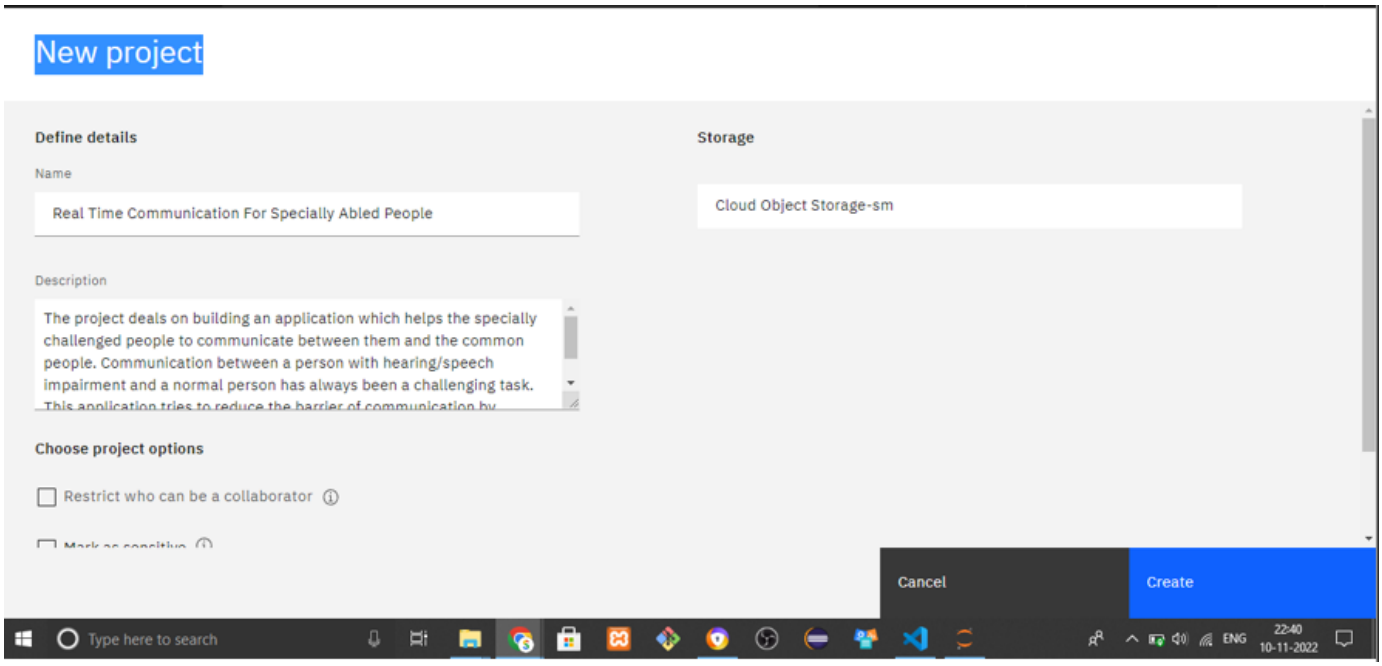
WATSON STUDIO FOR ML



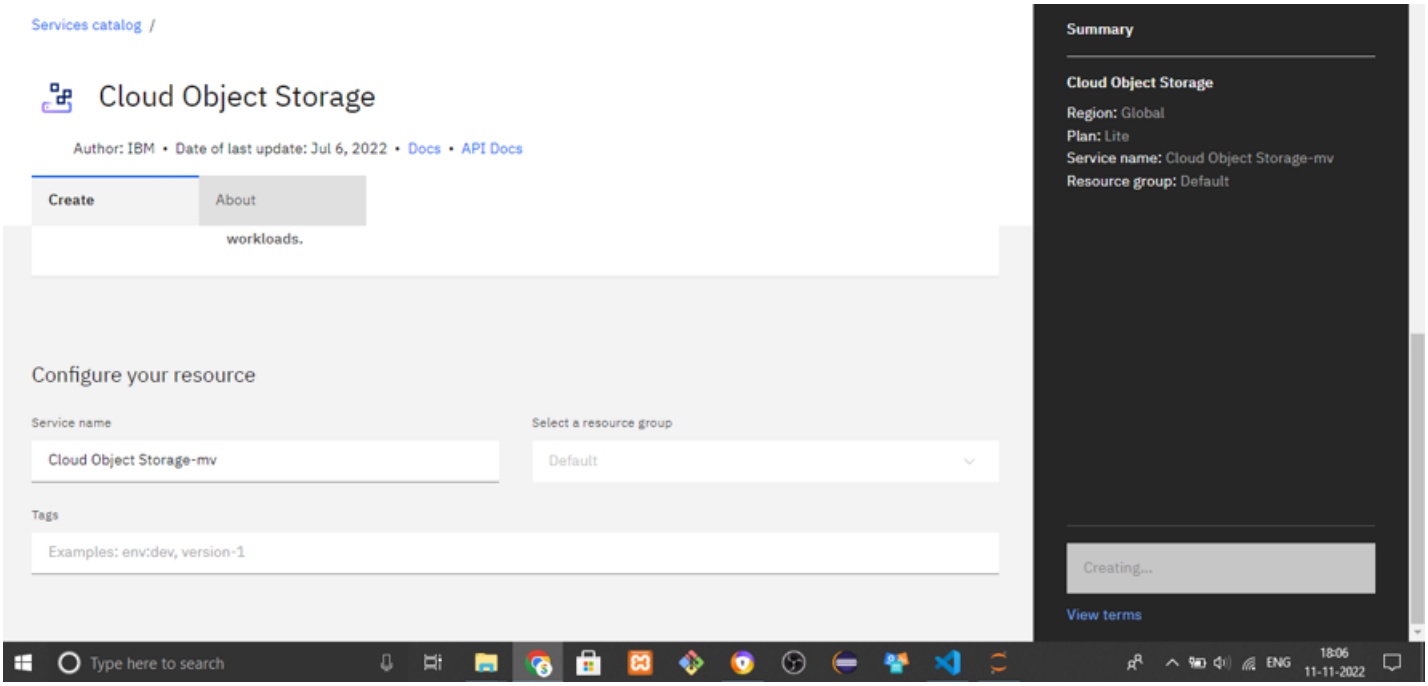
CREATING NEW PROJECT



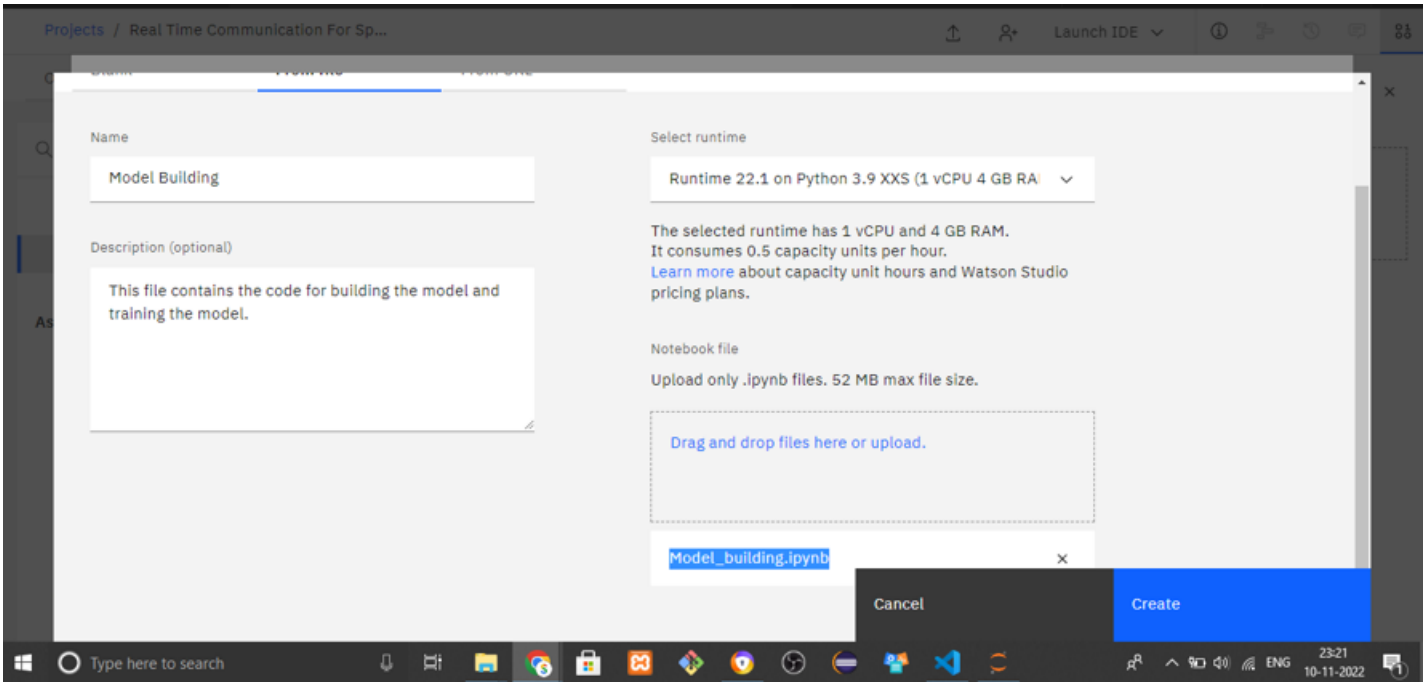
NEW PROJECT DESCRIPTION



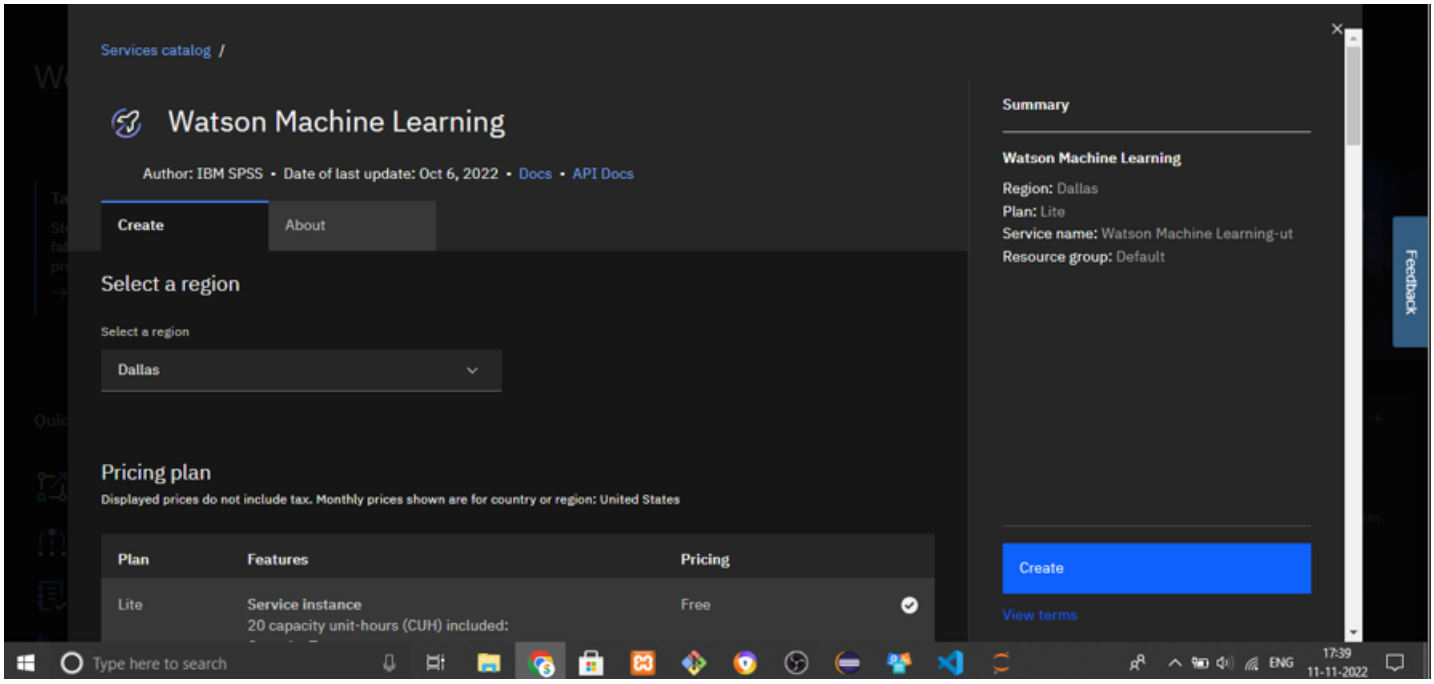
LINKING CLOUD OBJECT SERVICE



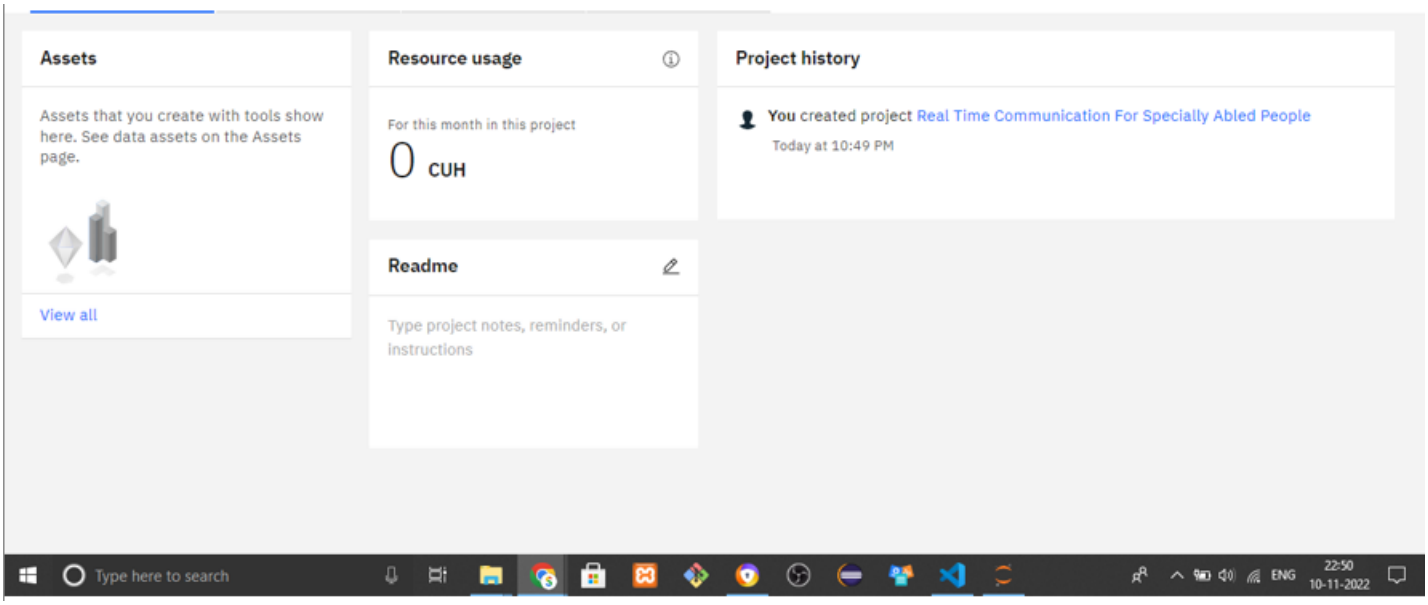
UPLOADING THE PYTHON FILES



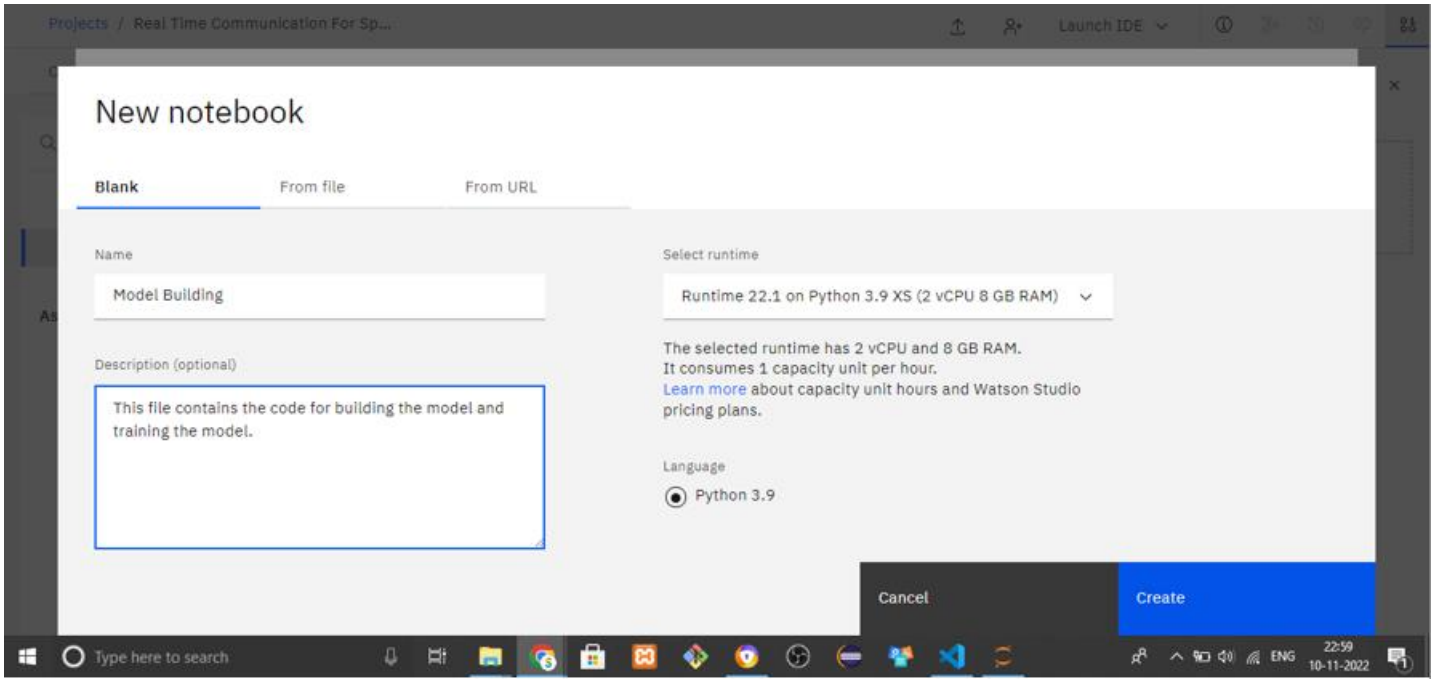
LINKING WATSON MACHINE LEARNING



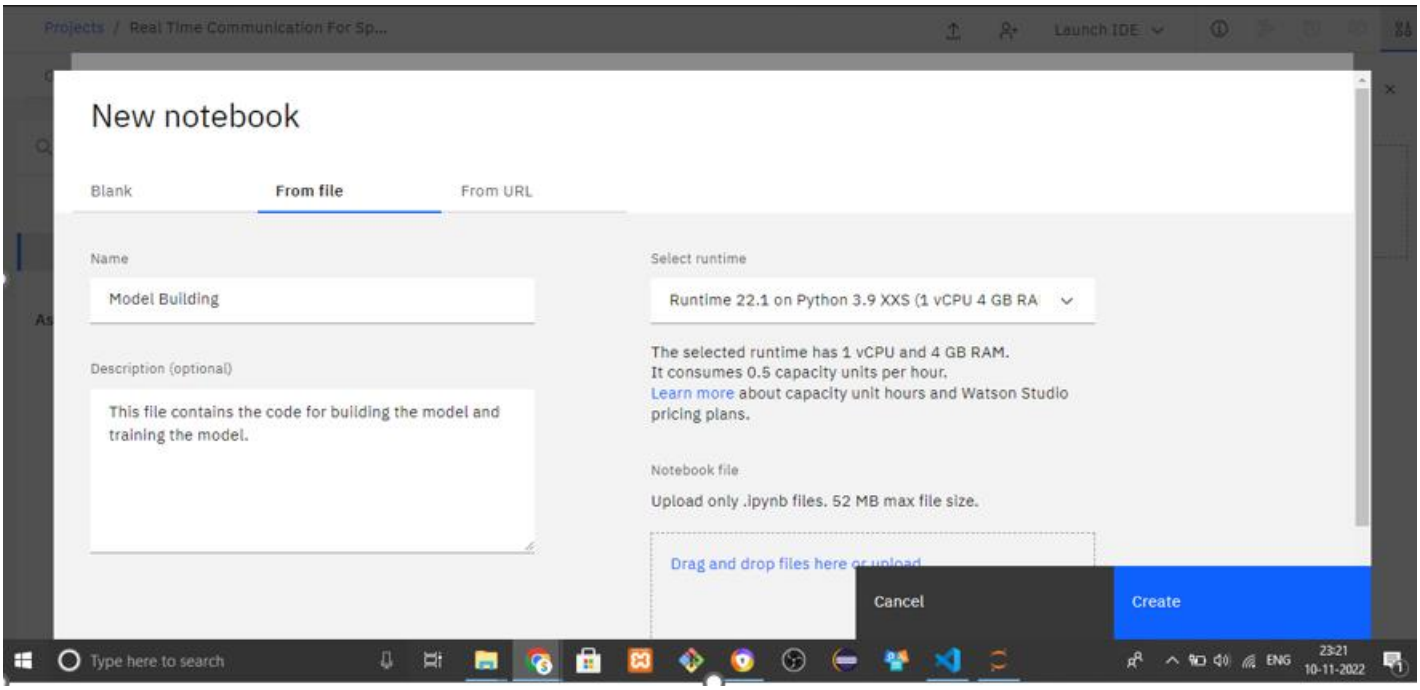
ADDING ASSETS TO PROJECT

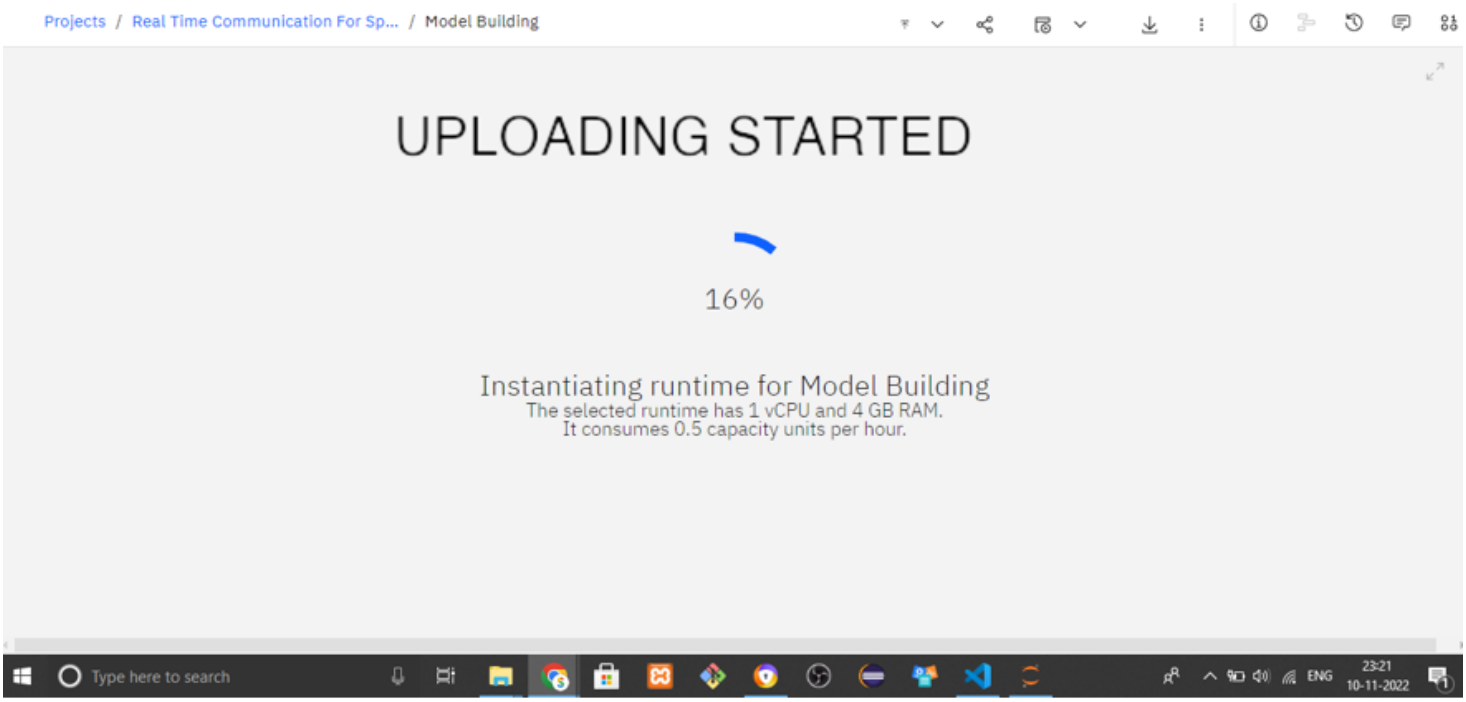


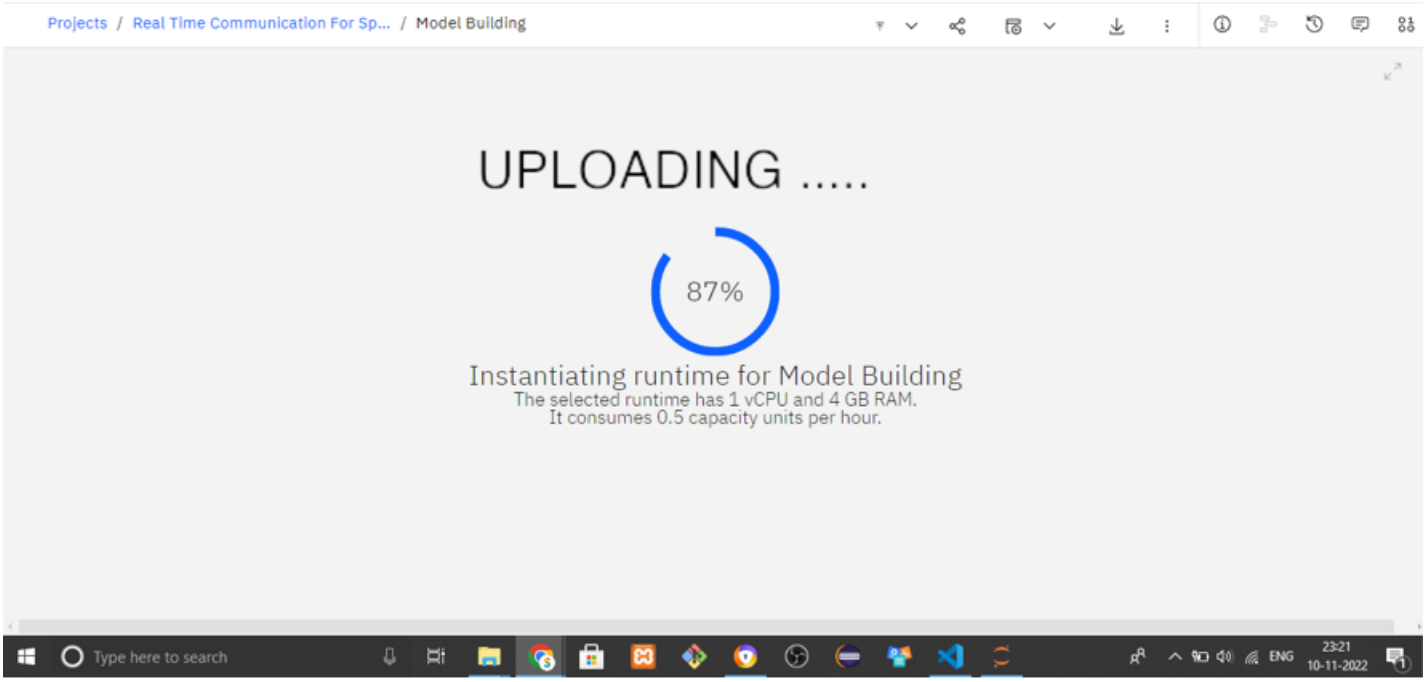
CREATING JUPYTER EDITOR



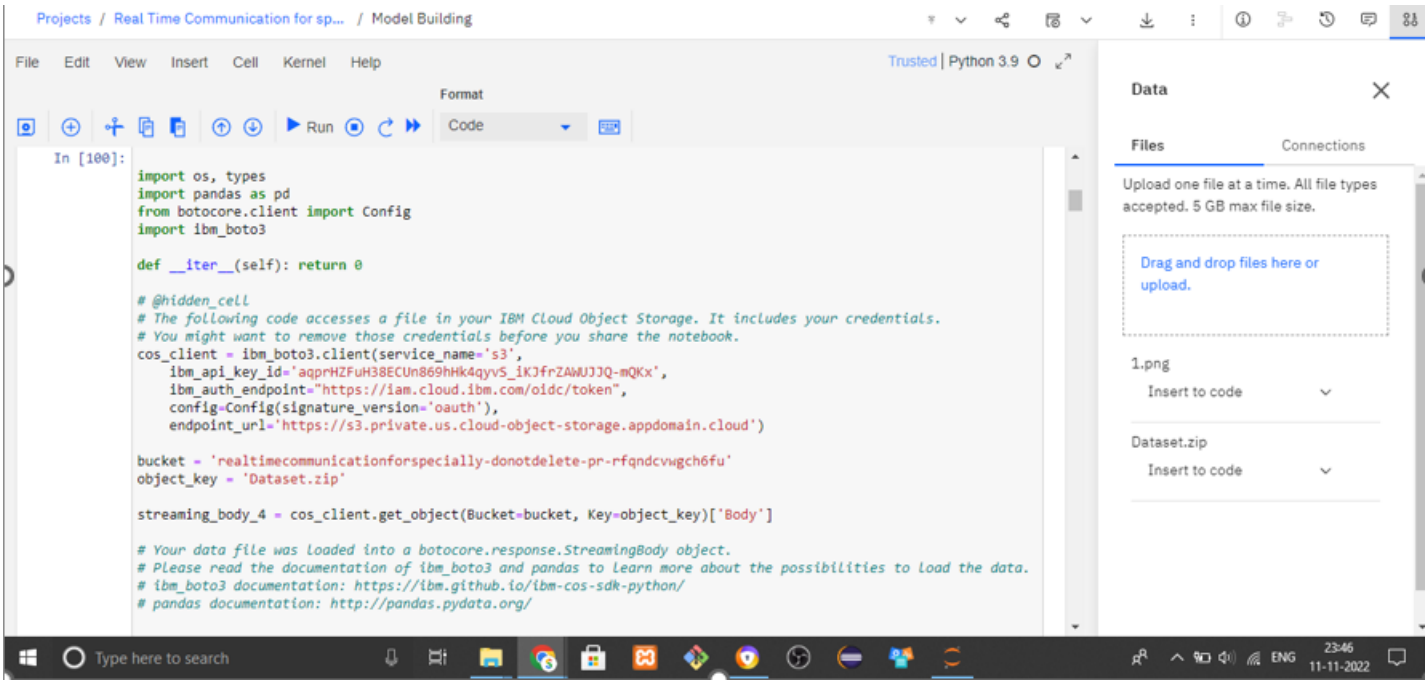
UPLOADING JUPYTER FILE ON EDITOR



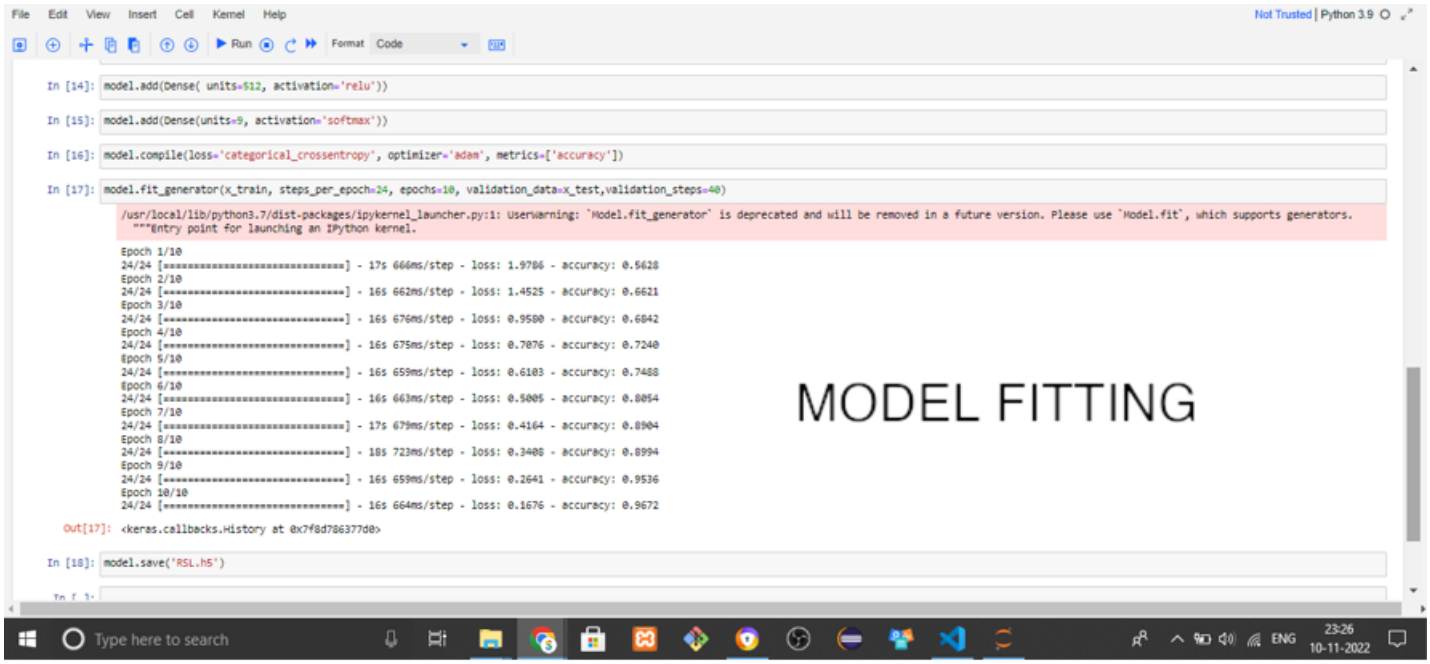

Projects / Real Time Communication For Sp... / Model Building
UPLOADING STARTED
16%
Instantiating runtime for Model Building
The selected runtime has 1 vCPU and 4 GB RAM.
It consumes 0.5 capacity units per hour.
Type here to search
ENG
23:21
10-11-2022


Projects / Real Time Communication For Sp... / Model Building
UPLOADING .....
87%
Instantiating runtime for Model Building
The selected runtime has 1 vCPU and 4 GB RAM.
It consumes 0.5 capacity units per hour.
Type here to search
ENG
23:21
10-11-2022

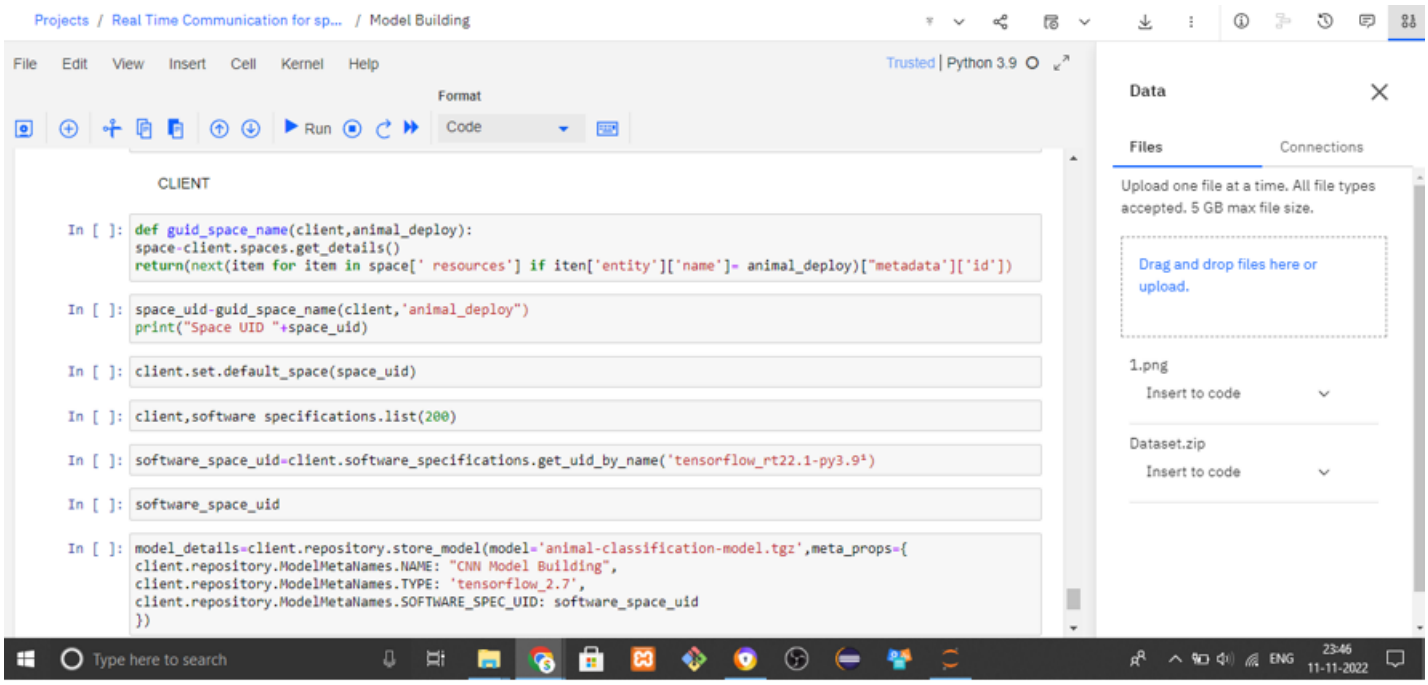
ADDING STREAMING BODY

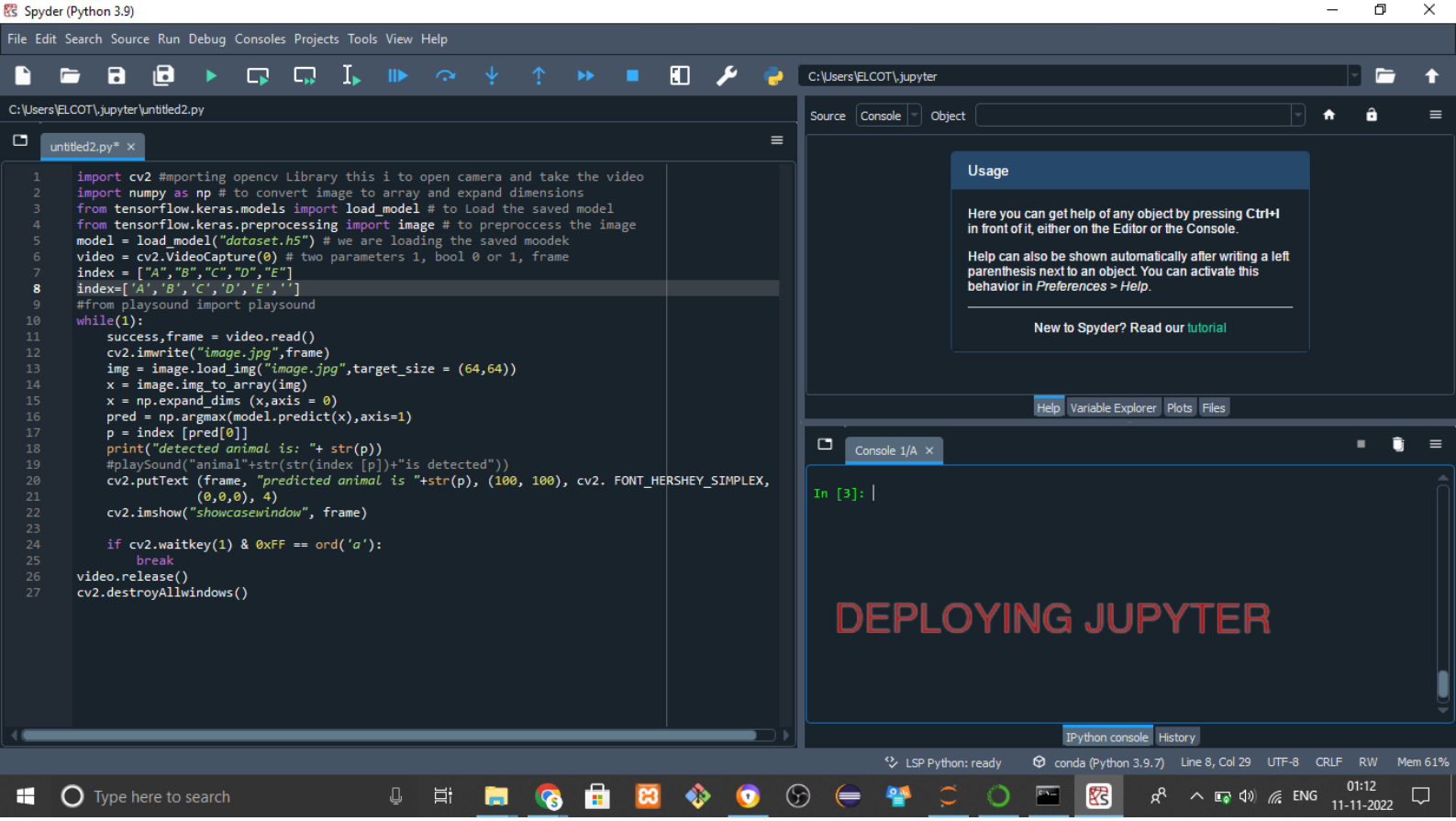


MODEL FITTING



CLIENT SOFTWARE




Spyder (Python 3.9)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ELCOT\.jupyter\untitled2.py
untitled2.py*
import cv2 #mporting opencv Library this i to open camera and take the video
import numpy as np # to convert image to array and expand dimensions
from tensorflow.keras.models import load_model # to Load the saved model
from tensorflow.keras.preprocessing import image # to preproccess the image
model = load_model("dataset.h5") # we are loading the saved moodek
video = cv2.VideoCapture(0) # two parameters 1, bool 0 or 1, frame
index = ["A","B","C","D","E"]
index=['A','B','C','D','E','']
#from playsound import playsound
while(1):
success,frame = video.read()
cv2.imwrite("image.jpg",frame)
img = image.load_img("image.jpg",target_size = (64,64))
x = image.img_to_array(img)
x = np.expand_dims (x,axis = 0)
pred = np.argmax(model.predict(x),axis=1)
p = index [pred[0]]
print("detected animal is: "+ str(p))
#playSound("animal"+str(str(index [p])+"is detected"))
cv2.putText (frame, "predicted animal is "+str(p), (100, 100), cv2. FONT_HERSHEY_SIMPLEX,
(0,0,0), 4)
cv2.imshow("showcasewindow", frame)
if cv2.waitkey(1) & 0xFF == ord('a'):
break
video.release()
cv2.destroyAllwindows()
C:\Users\ELCOT\.jupyter
Source Console Object
Usage
Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Help Variable Explorer Plots Files
Console 1/A
In [3]:
DEPLOYING JUPYTER
IPython console History
LSP Python: ready
conda (Python 3.9.7)
Line 8, Col 29
UTF-8
CRLF
RW
Mem 61%
Type here to search
ENG
01:12
11-11-2022