Train CNN Model On IBM

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Project Name	Real-Time Communication System Powered by Al for Specially Abled
Maximum Marks	2 Marks

```
import cv2
                         #importing open.cv Library to open camera and take the video
                         # to convert image to array and expand dimensions from
import numpy as np
tensorflow.keras.models import load_model
                                                    # to Load the saved model from
tensorflow.keras.preprocessing import image
                                                          # to preproccess the imagemodel
load model("dataset.h5")
                                                         # we are loading the saved model
video = cv2.VideoCapture(0)
                                            # two parameters 1, bool 0 or 1
                                         #frameindex= ["A","B","C","D","E","F","G","H","I"]
index=['A','B','C','D','E','F','G','H','I']
from playsound import playsound
while(1):
                                     cv2.imwrite("image.jpg",frame)
    success,frame = video.read()
img = image.load img("image.jpg", target size = (64,64))
                                                             χ=
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("predicted letter is: "+ str(p))
    #playSound("letter"+str(str(index [p])+"is detected"))
                                                             cv2.putText (frame,"predicted
letter is "+str(p), (100, 100), cv2. FONT HERSHEY SIMPLEX,
                                                                  1,(0,0,0), 4)
```