

INSTITUTE OF COMPUTER TECHNOLOGY

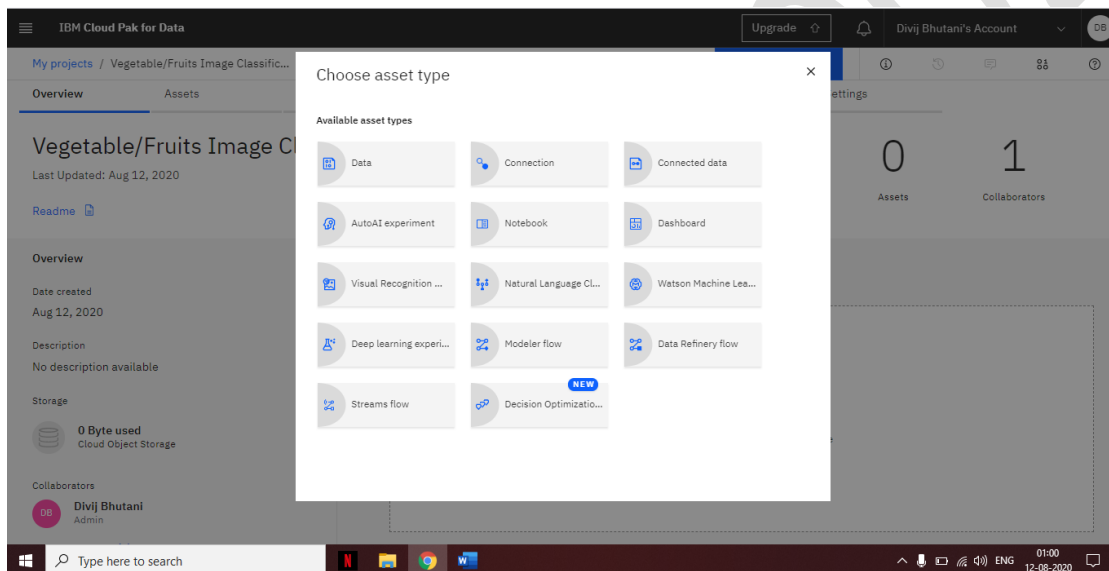
B. Tech CSE (BDA) Sem-VI

Subject: Cognitive Computing

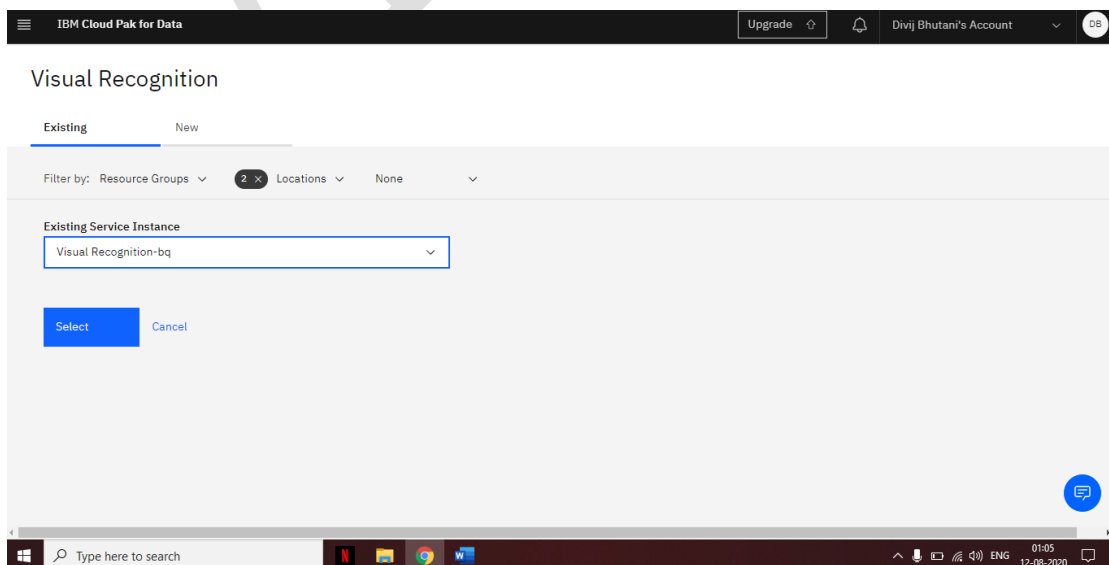
Assignment 1

Q) In the current National emergency observation of COVID-19 everyone should follow the guidelines to stay out of the infection and wearing the mask is one of them. Government need to keep monitoring on the citizen to follow the guideline with the help of IBM Visual Recognition train a Model to identify people who wearing mask or not in the public place.

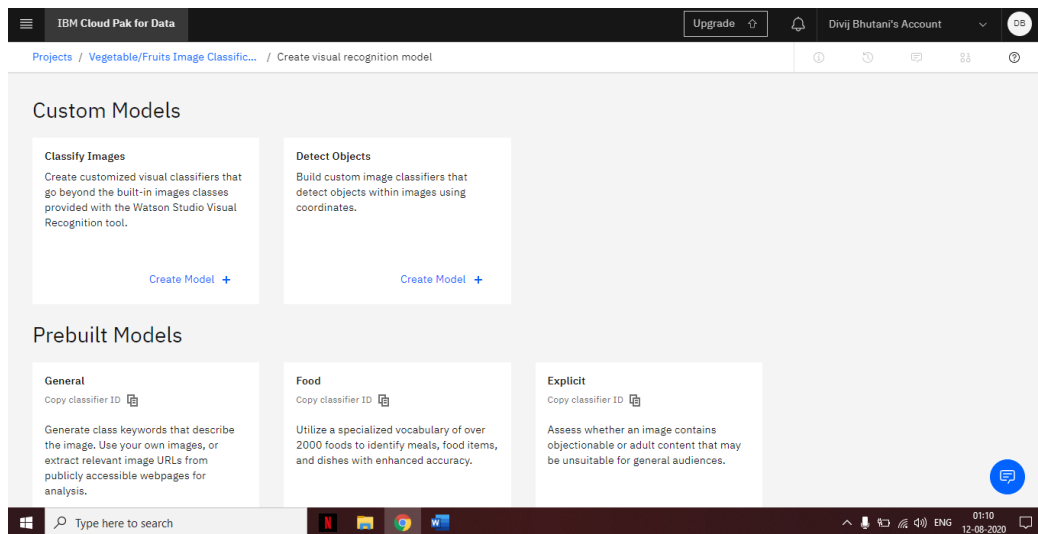
1) Firstly, create a new project and add visual recognition service into it.



2) Add the Visual Recognition service.

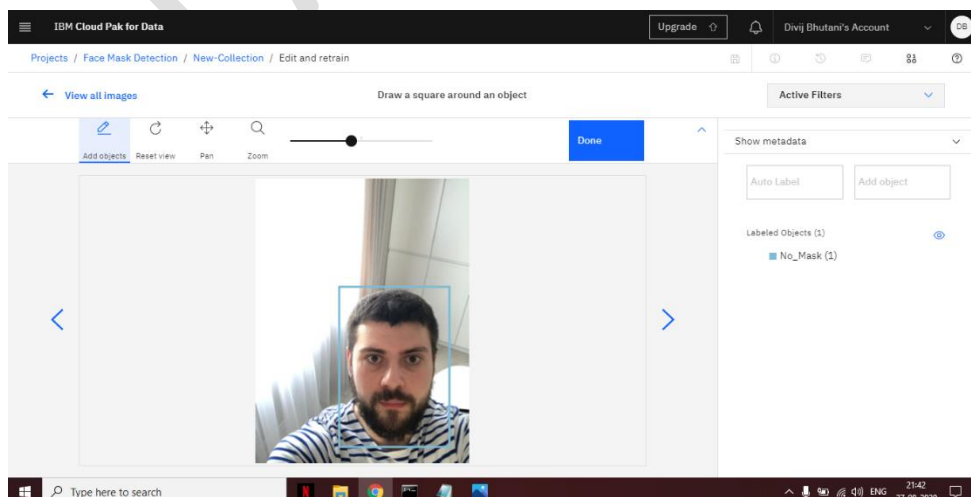
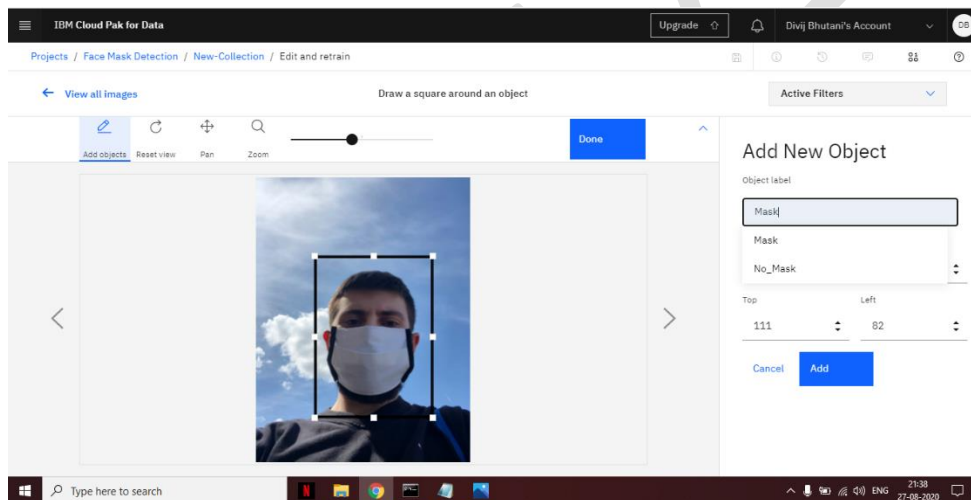


3) Now choose the model you want to create; in our case it is Detect Objects.

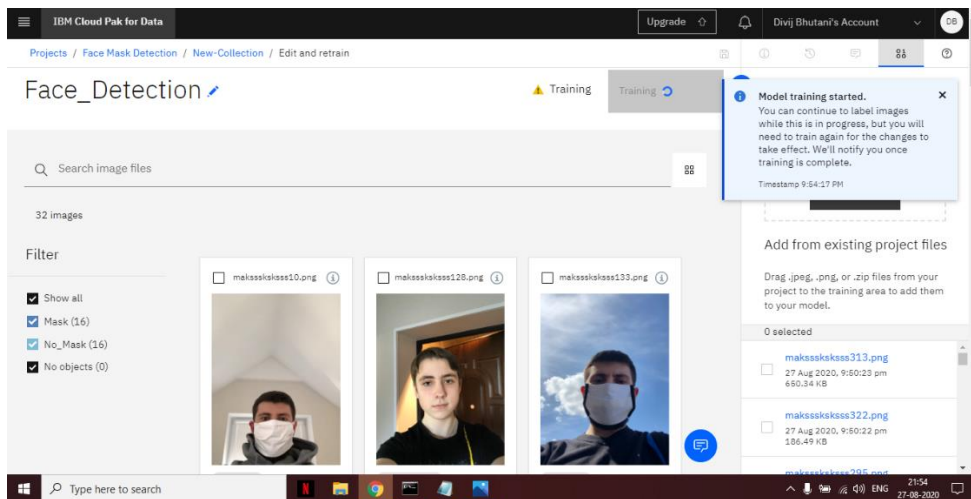


4) Now upload your image data into the model.

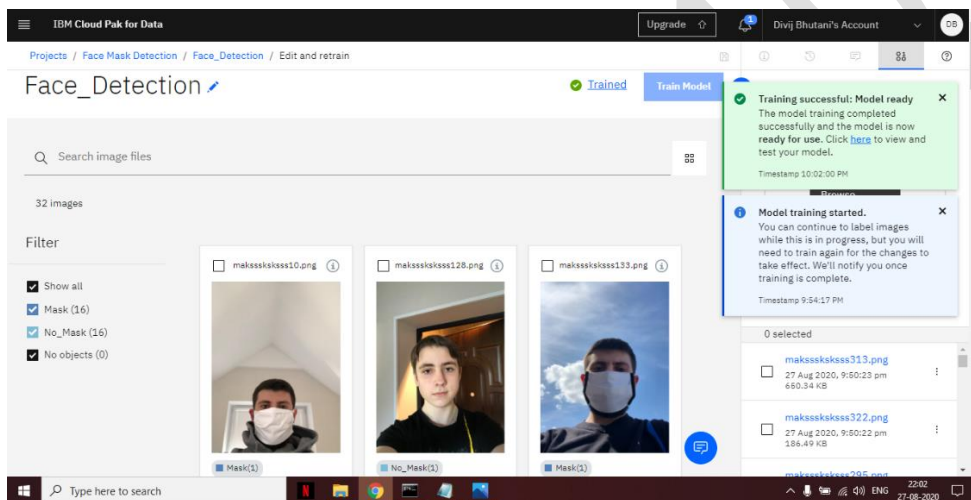
5) Now to detect whether man has worn mask or not, label the objects by selecting them and give a suitable name to it, in our case it is mask and no mask.



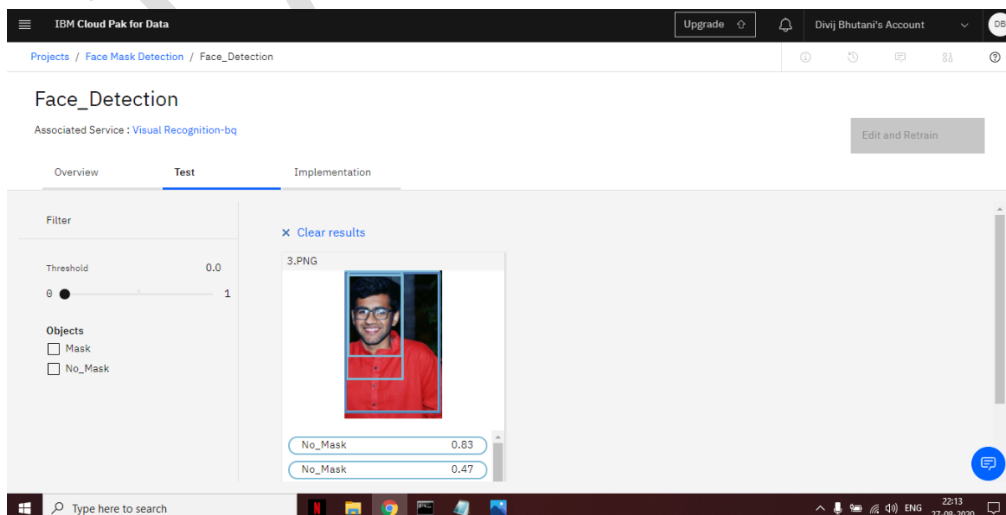
6) Press train model button to train the model, as you can see model has started training.



7) As you can see model is trained successfully. Now we will move on to test the model.



8) Now it's time to test our model. To test the model, go to the Test option and then upload image to see whether our model can detect them correctly. As you can see our model has rightly classified the image with a confidence of 0.83.



Q) Observing the current nation emergency scenario whoever is infected required quick attention. Idea is with the help of IBM Watson Assistant build an assistant that can ask all symptoms related to COVID-19 and provide nearest health center detail to respective area.

Dialog Flow:

The screenshot shows the IBM Watson Assistant Lite interface for a bot named 'covid bot'. The left sidebar contains navigation options: Intents, Entities, Dialog, Options, Analytics, Versions, and Content Catalog. The 'Dialog' section is active, showing a flowchart with nodes. The first node is '1 Responses / 0 Context Set / Does not return', which leads to 'Covid Symptoms' (1 Responses / 0 Context Set / Jump to / Does not return). This node then leads to 'Start Assess Symptoms' (1 Responses / 0 Context Set / Does not return). From 'Start Assess Symptoms', the flow branches into two nodes: 'Do you have fever?' (1 Responses / 0 Context Set / Return allowed) and 'Do you have breathing problem?' (1 Responses / 0 Context Set / Does not return). The 'Do you have fever?' node has a choice response '@choice:yes'. The right pane shows a preview of the bot's behavior, including a prompt 'Do you have fever?' and a response 'Now, do you also have cold cough?'.

Intents:

The screenshot shows the 'Intents' section of the IBM Watson Assistant Lite interface for the 'covid bot'. The left sidebar is the same as the previous screenshot. The 'Intents' section is active, displaying a table of intents. The table has columns for 'Intents (3) ↑', 'Description', 'Modified t1', and 'Examples t1'. The table contains three rows: '#assess_symptoms' (3 hours ago, 4 examples), '#covid_symptoms' (3 hours ago, 4 examples), and '#exit' (3 hours ago, 5 examples). A 'Create intent' button is visible in the top right corner of the table area.

Entities:

The screenshot shows the 'Entities' section of the IBM Watson Assistant Lite interface for the 'covid bot'. The left sidebar is the same as the previous screenshots. The 'Entities' section is active, displaying a list of system entities. The list has columns for 'Name (5)', 'Description', and 'Status'. The entities listed are: '@sys-time' (Extracts time mentions (at 10), Off), '@sys-percentage' (Extracts amounts from user examples including the number and the % sign. (15%), Off), '@sys-number' (Extracts numbers mentioned from user examples as digits or written as numbers. (21), Off), '@sys-date' (Extracts date mentions (Friday), Off), and '@sys-currency' (Extracts currency values from user examples including the amount and the unit. (20 cents), Off). A 'Try it' button is visible in the top right corner.

Bot Link: <https://web-chat.global.assistant.watson.cloud.ibm.com/preview.html?region=us-south&integrationID=8403bc10-7156-4bfb-ae70-13ddd65b2dfc&serviceInstanceID=8f8de68a-fe6e-4d7c-a36f-7165359a1550>

