## **IBM Training**

Watson Studio AI Services Integration Hands-On Lab-7

Visual Recognition Service

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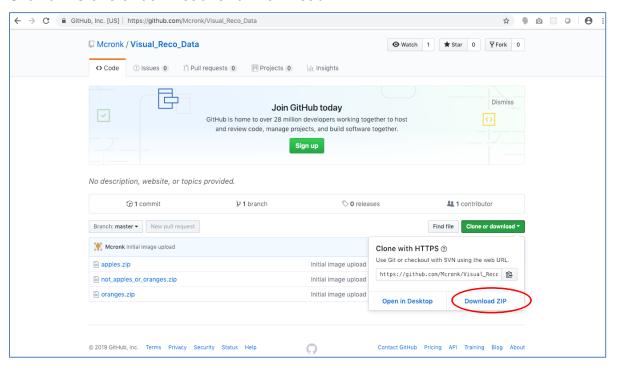
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## Lab-7: Configure a Visual Recognition Service in Watson Studio

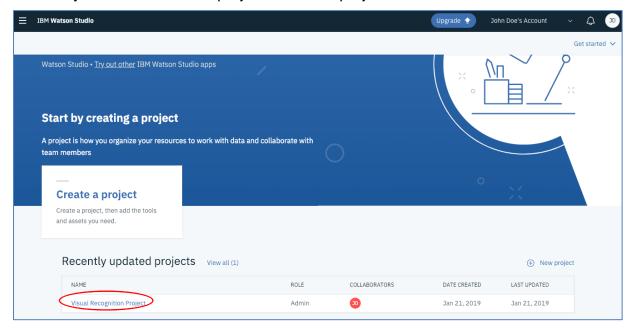
This lab guide is intended to provide you with hands-on experience in using the Watson Al Visual Recognition service in the Watson Studio data science platform.

- 1. Open Firefox or Chrome and navigate to <a href="https://github.com/Mcronk/Visual\_Reco\_Data">https://github.com/Mcronk/Visual\_Reco\_Data</a>
- 2. Click on "Clone or download" and "Download ZIP"

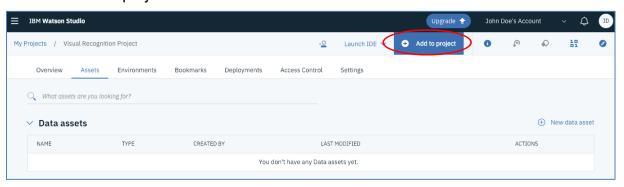


- 3. Unzip the zip file on your Desktop.
- 4. Click on the Watson Studio browser tab.

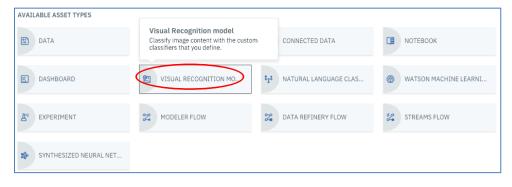
5. Click on your Watson Studio project. Note the project name will be different.



6. Click on "Add to project"

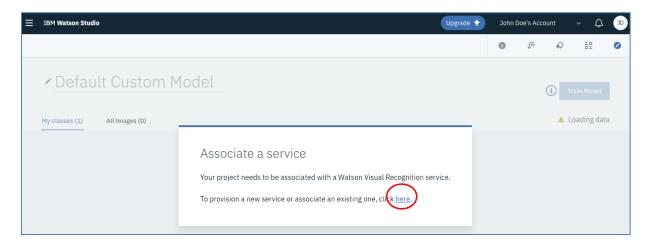


7. Click on Visual Recognition Model

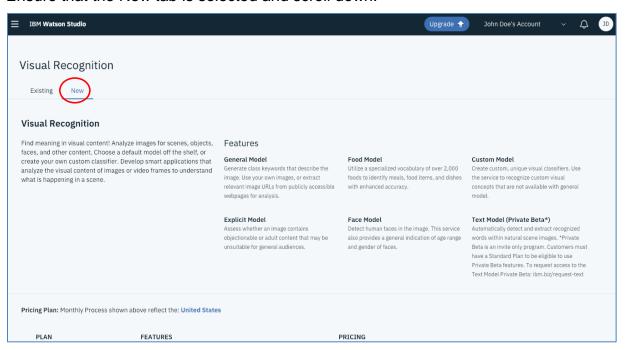


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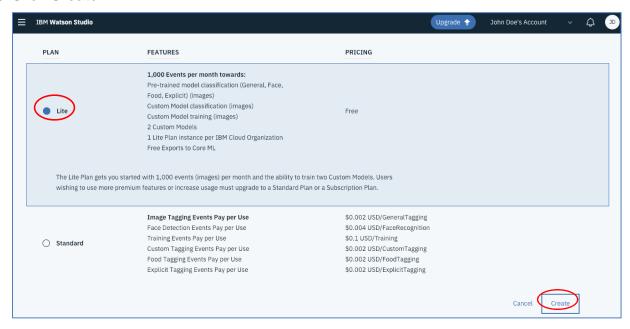
You will be prompted to create or associate a new Visual Recognition Service. Click on the blue link to provision a new service.



8. Ensure that the New tab is selected and scroll down.



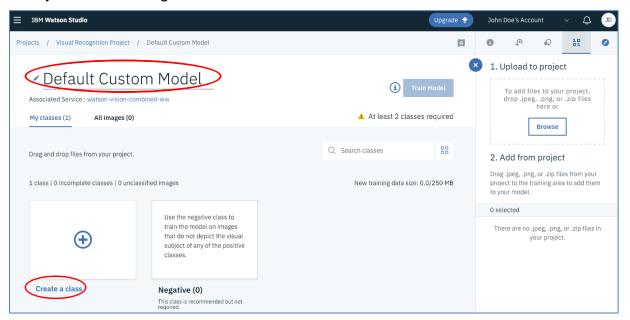
- 9. Ensure that the Lite option is selected.
- 10. Click Create.



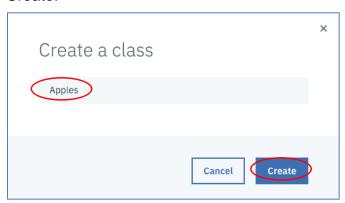
11. Keep the defaults and click Confirm.



- 12. You will be brought to your visual recognition service dashboard within Watson Studio.
- 13. Give your Visual recognition model a name and click Create a class.

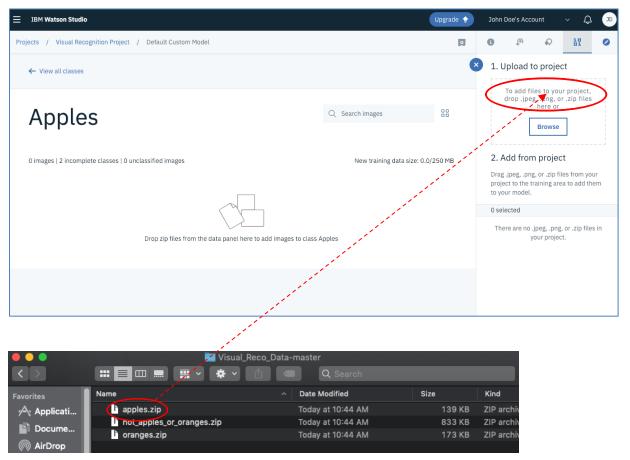


14. We are going to compare Apples and Oranges. Name the class "Apples" and click Create.

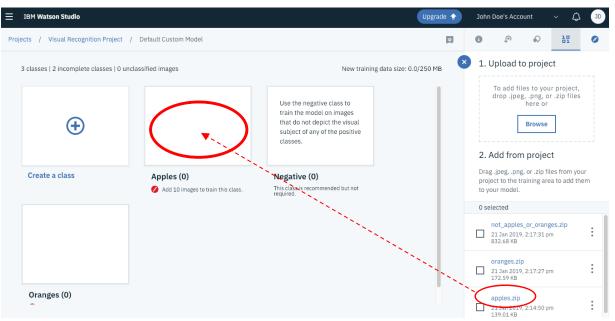


- 15. Create another class named "Oranges"
- 16. Your dashboard should now contain two classes and Negative. You may need to scroll down to see all your classes.
- 17. Click on Apples.

18. Drag and drop the zip file named "apples.zip" into the Upload to project box towards the top right of your page.

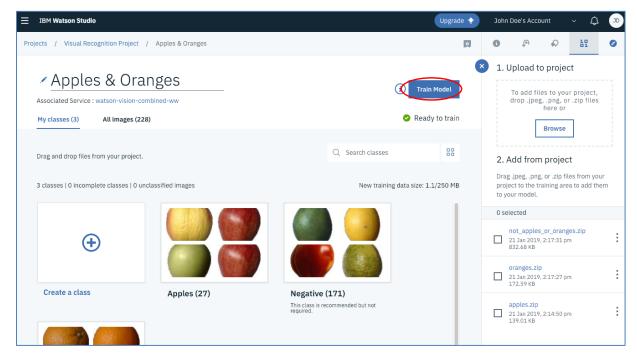


- 19. Repeat step 19 for "oranges.zip" and "not apples or oranges.zip"
- 20. Click on apples.zip in the bottom right hand of your Watson Studio page and drag it to the Apples class.

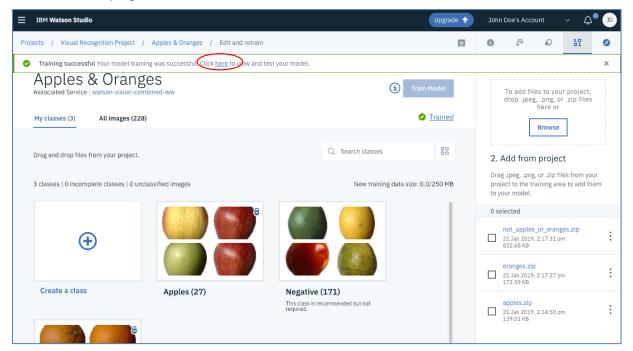


- 21. This will load files into the model.
- 22. Drag "Oranges.zip" to the Oranges class and "not\_apples\_or\_oranges.zip" to the Negatives class. The Negatives class is meant to contrast the classes we create so the model knows when it is given a picture that is, in this case, neither an apple nor an orange.

23. Once your images have finished loading, click on Train Model. Both the loading and the training may take a few minutes. You may want to move on to Lab 8 while the model trains.



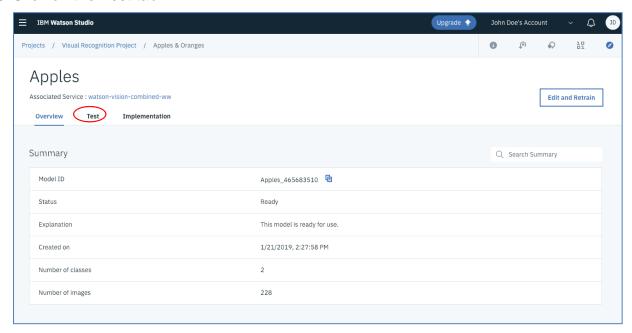
24. Once the model is finished training, click on the link that appears at the top to bring you to the test page.



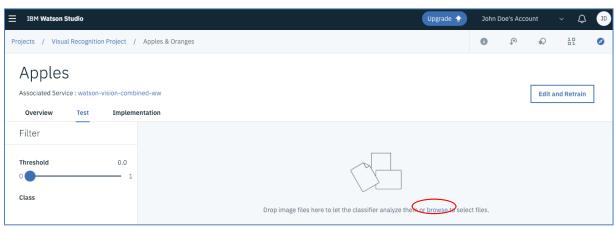
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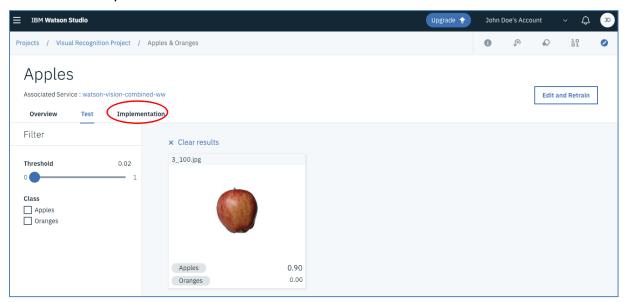
25. Click on the Test tab.



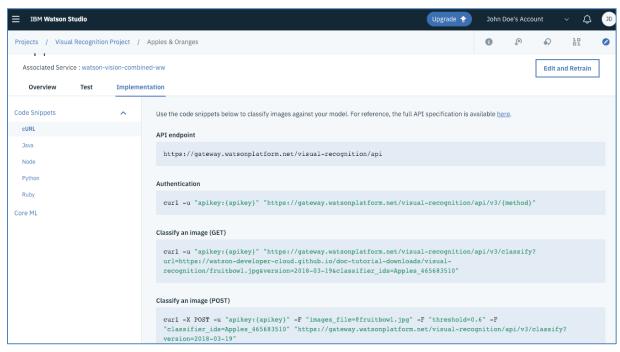
26. Click browse and select an image from the "test\_images" folder you downloaded at the beginning of the lab.



27. Click on the Implementation tab.



28. You will be brought to a page of pre-built API calls, curl requests, and implementations in common web-oriented languages.



This model is now exposed for integration with applications within Watson Studio and with external systems. Examples of where this image classifier can now be used include any existing analytics pipelines, Jupyter Notebooks, and/or with mobile applications.

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