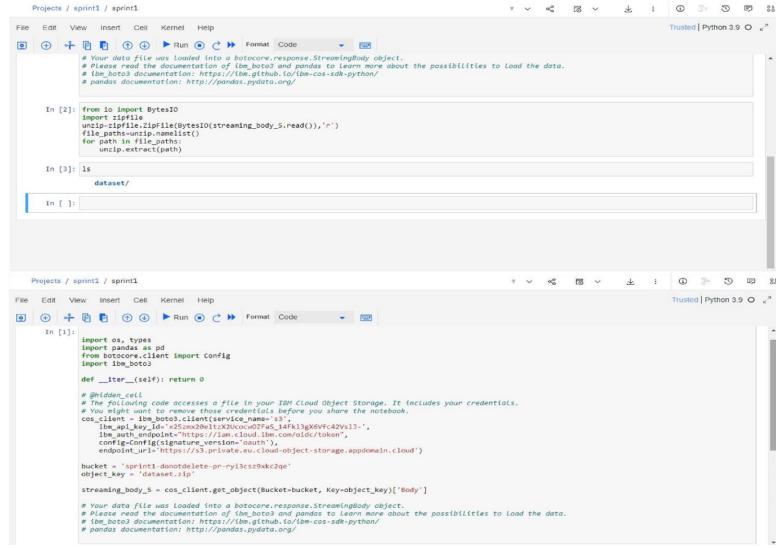
Project Development Phase Sprint

- 3

Date	13 November 2022
Team ID	PNT2022TMID03631
Project Name	A Gesture - Based Tool for Sterile Browsing of Radiology Images
Marks	4 Marks



IBM Watson Studio:

Sprint 1:

Sprint 2:

```
Projects / A Gesture based tool for Sterile ... / handgesture
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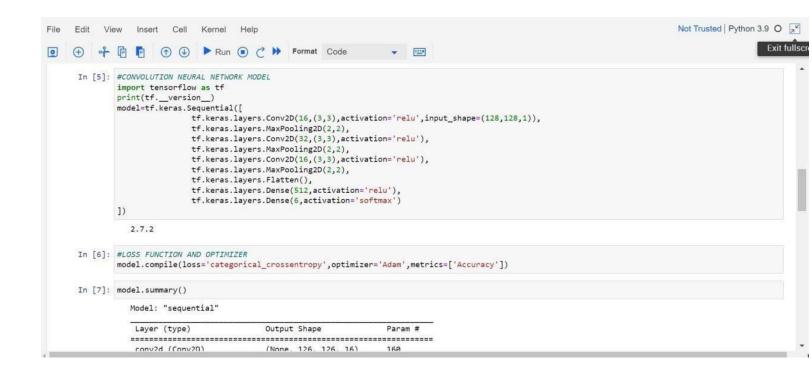
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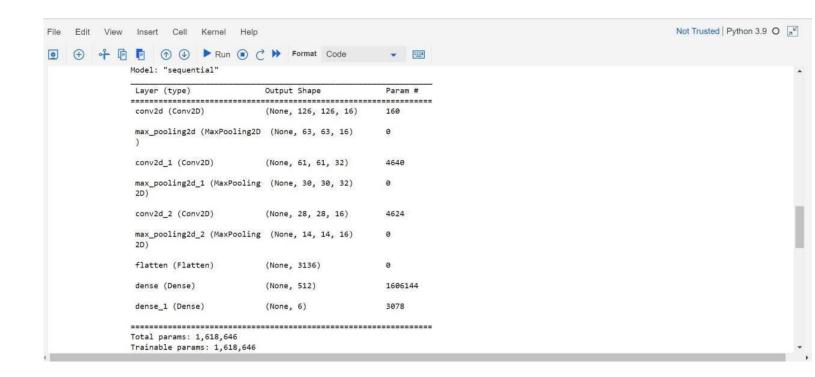
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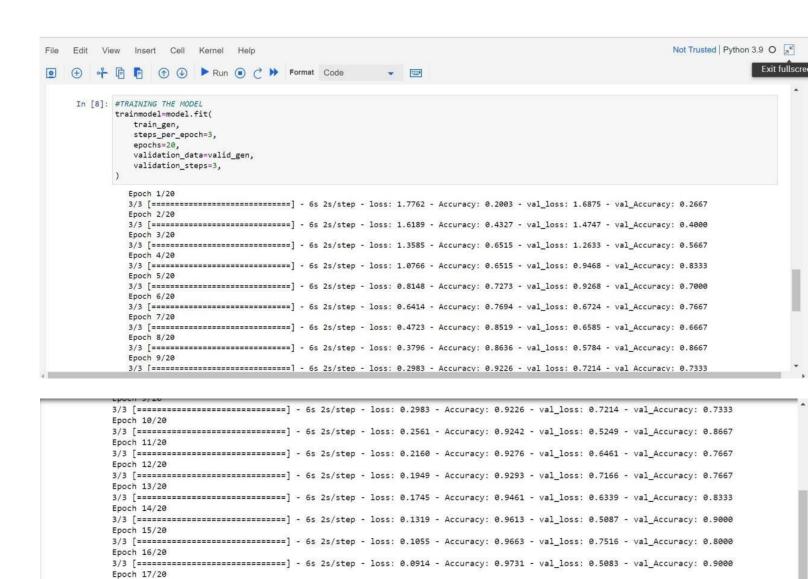
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                                                                                                                                                                                                                                       · =
                    In [3]: #TRAIN DATA PREPROCESSING
                                                from tensorflow.keras.preprocessing.image import ImageDataGenerator
                                              train\_datagen=ImageDataGenerator(rescale=1./255, shear\_range=0.25, zoom\_range=0.2, horizontal\_flip=True)
                                               train_datagen=ImageDataGenerator(rescale=1./255)
                                              train_gen=train_datagen.flow_from_directory(
                                                             'dataset/train'
                                                          target_size=(128,128),
                                                          batch_size=198,
                                                           color_mode='grayscale'
                                                           class_mode='categorical'
                                                       Found 594 images belonging to 6 classes.
                    In [4]: #VALIDATION DATA PREPROCESSING
                                                from tensorflow.keras.preprocessing.image import ImageDataGenerator
                                               valid_datagen=ImageDataGenerator(rescale=1./255)
                                               valid_gen=valid_datagen.flow_from_directory(
                                                          'dataset/test',
target_size=(128,128),
                                                          batch_size=10,
                                                           color mode='grayscale'.
```

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 In [3]: #TRAIN DATA PREPROCESSING
         from tensorflow.keras.preprocessing.image import ImageDataGenerator
         train\_datagen=ImageDataGenerator(rescale=1./255, shear\_range=0.25, zoom\_range=0.2, horizontal\_flip=True)
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         train_gen=train_datagen.flow_from_directory(
             'dataset/train'
             target_size=(128,128),
             batch size=198,
             color_mode='grayscale',
             class_mode='categorical'
            Found 594 images belonging to 6 classes.
 In [4]: #VALIDATION DATA PREPROCESSING
         from tensorflow.keras.preprocessing.image import ImageDataGenerator
         valid_datagen=ImageDataGenerator(rescale=1./255)
         valid_gen=valid_datagen.flow_from_directory(
             'dataset/test',
             target_size=(128,128),
             batch_size=10,
             color_mode='grayscale',
             class_mode='categorical'
            Found 30 images belonging to 6 classes.
```







3/3 [============] - 6s 2s/step - loss: 0.0810 - Accuracy: 0.9764 - val loss: 0.7712 - val Accuracy: 0.8333

3/3 [==========] - 6s 2s/step - loss: 0.0508 - Accuracy: 0.9899 - val_loss: 0.5598 - val_Accuracy: 0.9000

Epoch 18/20

Sprint 3	3:
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Home Page:

Main page:

