Emerging methods for early detection of forest fire

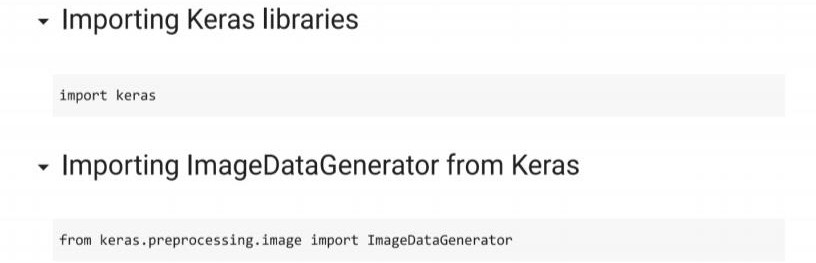
MODEL BUILDING PREDICTIONS

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| --- | --- |
| Team ID | PNT2022TMID17141 |
| Project Name | Emerging methods for early detection of forest fire |

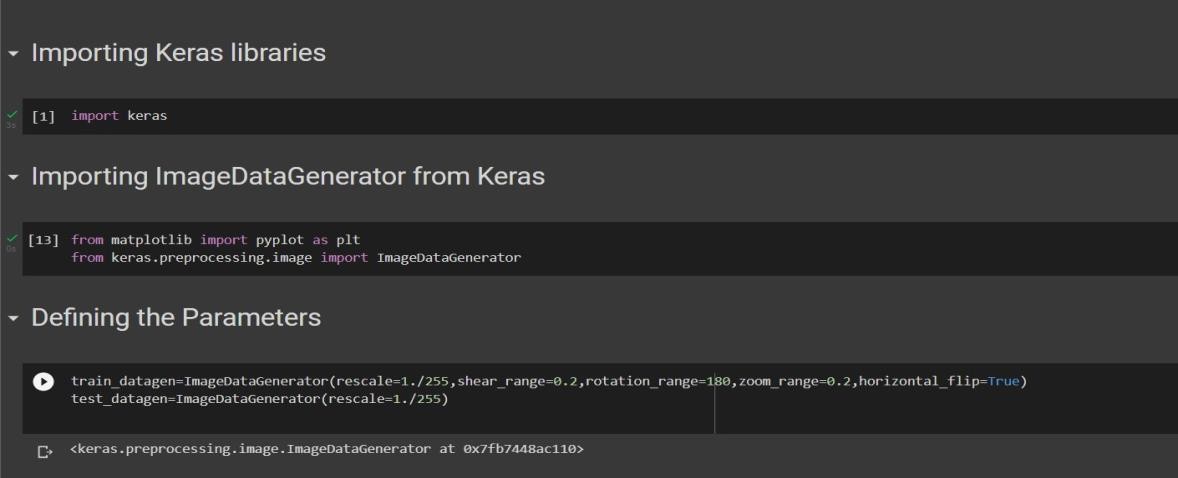
PREDICTIONS:

The last and final step is to make use of our saved model to do predictions. For that we have a class in keras called load\_model. Load\_model is used to load our saved model h5 file (alert.h5).

**IMPORT LIBRARIES:**

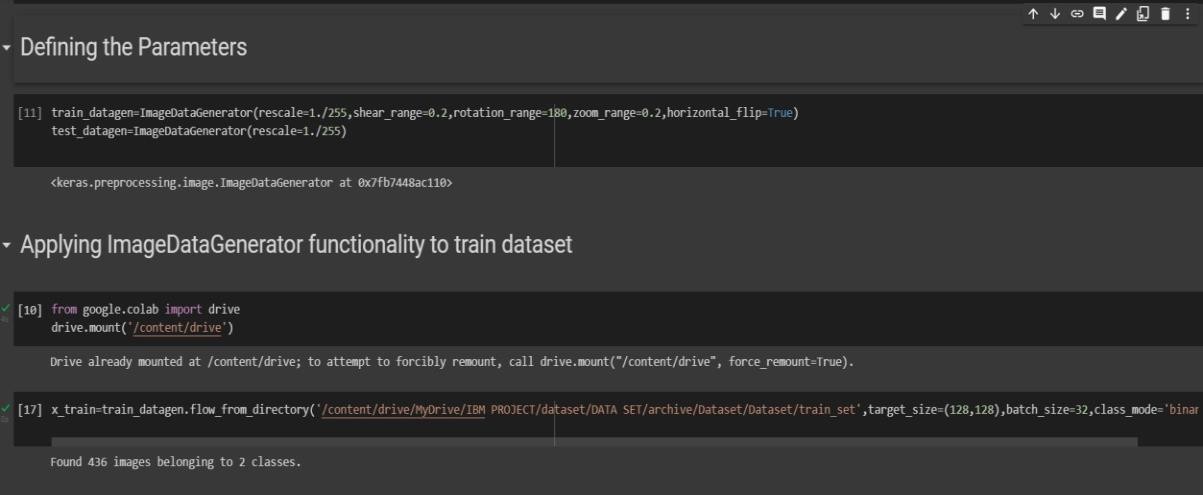


**IMPORT ImageDataGenerator FROM KERAS:**



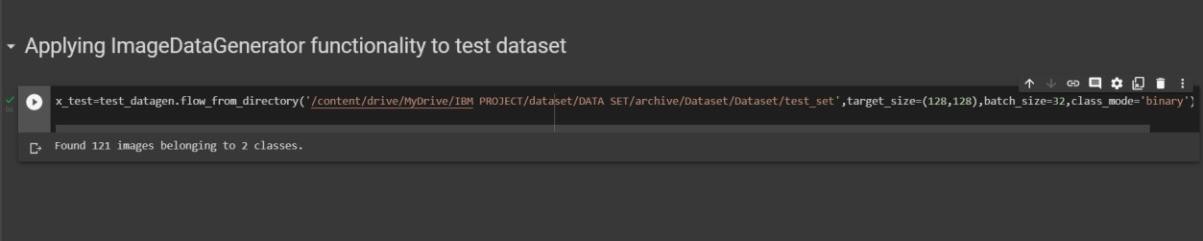
APPLYING ImageDataGenerator to train dataset:

ply**flow\_from\_directory ( )**methodfor Train folder.



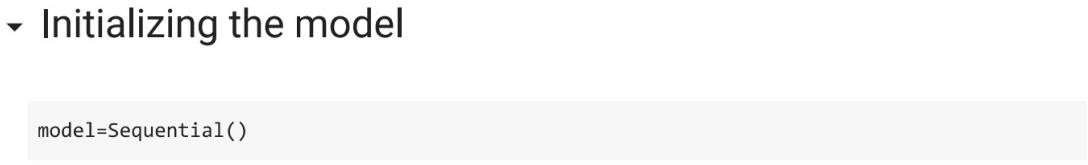
APPLYING ImageDataGenerator to test dataset:

Applying the **flow\_from\_directory ( )** methodfortest folder.

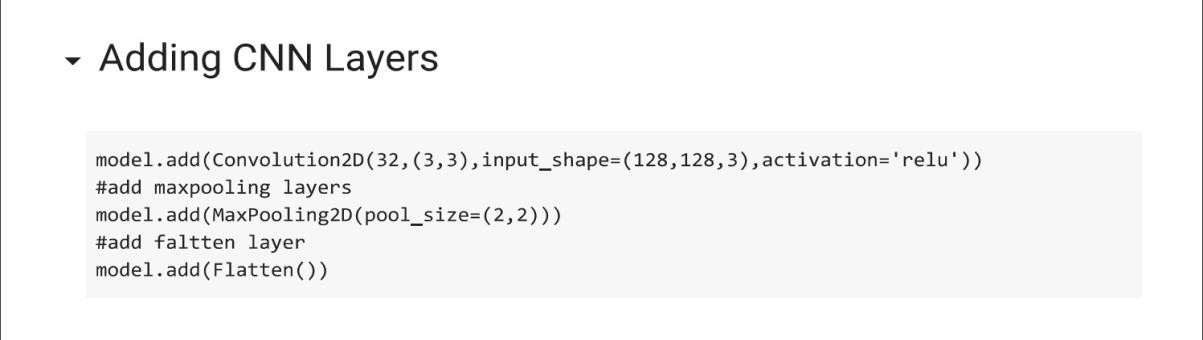


IMPORTING MODEL BUILDING LIBRARIES:

**INITIALIZING THE MODEL:**



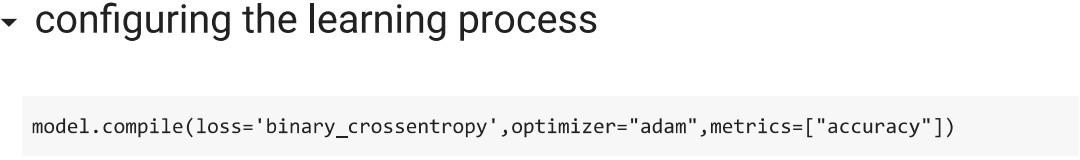
**ADDING CNN LAYERS:**



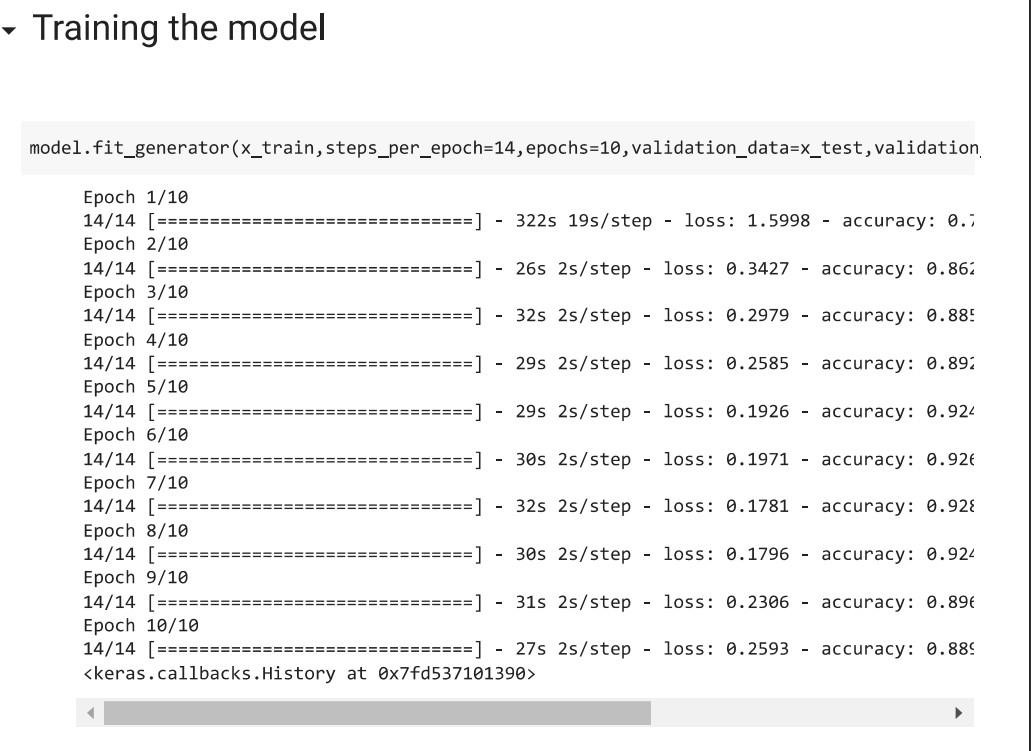
**ADDING DENSE LAYERS:**



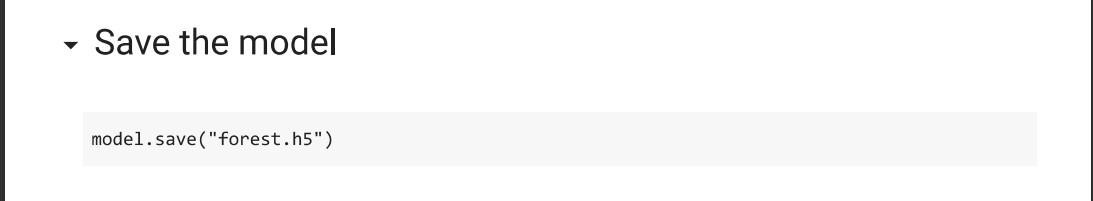
**CONFIGURING THE LEARNING PROCESS:**



**TRAINING THE MODEL:**



**SAVE THE MODEL:**



**PREDICTIONS:**



