BUILDING MODEL

TEAM ID	PNT2022TMID52124
PROJECT NAME	Digital Naturalist - AI Enabled tool for Biodiversity Researchers

```
# -*-
coding:
utf-8 -
*-
        """"Building_model
        Automatically generated by Colaboratory.
        Original file is located at
            https://colab.research.google.com/drive/1wU40nGlzOWa970vqxyp25LJ968cObB6s
        """
        #Building a model based on the above defined function
        model=load_CNN(6)  #Number of Columns/Outputs
        model.compile(loss='categorical_crossontropy',optimizer=Adam(lr=0.001),metrics=['accuracy'])
        model.summary #to print model summary
        weights=model.get_weights() #to get the weighs from model
        #some arrays to store the result of each model
        histories_acc=[]
        histories_val_acC=[]
        histories_loss=[]
        histories_val_loss=[]
        model.set_weights(weights)
        h=model.fit(X_train, y_train,
                batch_size=16,
                epochs=7,
                verbose=1,
                callbacks=[early_stop_loss],
                shuffle=True,
                validat1on_data=(X_test, y_test))
        model.summary()#to print model summary
```