## V.S.B. ENGINEERING COLLEGE, KARUR

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## INITIALIZING THE MODEL

```
model=Sequential()
model.add(Convolution2D(32,(3,3),input shape=(128,128,3),activation='relu')
model.add(MaxPooling2D(pool size=(2,2)))
model.add(Flatten())
model.add(Dense(units=40,kernel initializer='uniform',activation='relu'))
model.add(Dense(units=70,kernel initializer='random_uniform',activation='re
model.add(Dense(units=6,kernel initializer='random uniform',activation='sof
tmax'))
model.compile(loss='categorical crossentropy',optimizer="adam",metrics=["ac
curacy"])
model.fit(x train, steps per epoch=168, epochs=3, validation data=x test, valid
ation steps=52)
Epoch 1/3
accuracy: 0.4315 - val_loss: 119.8421 - val_accuracy: 0.5577
Epoch 2/3
accuracy: 0.5982 - val_loss: 107.7073 - val_accuracy: 0.5288
Epoch 3/3
accuracy: 0.6905 - val loss: 97.8494 - val_accuracy: 0.8173
<keras.callbacks.History at 0x1e34c9b7310>
model.save(r'C:\Users\uma25\project\flask\uploads\fruit.h5')
```