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src/model_architecture.py
                              Tue Nov 07 16:15:59 2023
 1: from tensorflow import keras
 2: from tensorflow.keras import layers, regularizers
 3: from keras.layers import Dense, Dropout, Activation, Flatten, BatchNormalization
 4: from keras.layers import Conv2D, MaxPooling2D, LeakyReLU
  5: def make model (num classes, x train):
  6:
        model = keras.Sequential()
            model.add(Conv2D(16, (3,3), padding='same', input_shape=x_train.shape[1:],activation='relu'))
 7:
 8:
            model.add(Conv2D(16, (3,3), strides=(2,2), padding='same', activation='relu'))
 9:
            model.add(Conv2D(32, (3,3), padding='same', activation='relu'))
10:
            model.add(Conv2D(32, (3,3), strides=(2,2), padding='same', activation='relu'))
            model.add(Dropout(0.5))
11:
12:
            model.add(Flatten())
13:
            model.add(Dense(num_classes, activation='softmax', kernel_regularizer=regularizers.11(0.0001)))
 14:
         return model
```