

## Project Development Phase – Sprint 2

### Model Building

#### Import The Required Model Building Libraries

```
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import Convolution2D
from keras.layers import MaxPooling2D
from keras.layers import Dropout
from keras.layers import Flatten
```

#### Initialize The Model

```
model = Sequential()
```

#### Add The Convolution Layer

```
model.add(Convolution2D(32, (3,3), input_shape=(64,64,1),activation = 'relu'))
```

#### Add The Pooling Layer

```
model.add(MaxPooling2D(pool_size=(2,2)))
```

#### Add The Flatten Layer

```
model.add(Flatten())
```

#### Adding The Dense Layer

```
model.add(Dense(units=512, activation='relu'))
model.add(Dense(units=9, activation='softmax'))
```