**ABSTRACT:**

The neural network is the most advanced method at the moment to train the system to do a task. Among them CNN (convolution neural network ) and its derivatives are the most used for training the system to identify and classify images and in computer vision.

**Network Used:**

Convolution Neural Network

**Layers in Network:**

cnn.add(Conv2D(filters=128,kernel\_size=5,activation='relu',input\_shape=[64,64,3]))

cnn.add(MaxPool2D(pool\_size=3,strides=1))

cnn.add(Dropout(0.2))

cnn.add(BatchNormalization())

cnn.add(Conv2D(filters=64,kernel\_size=3,activation='relu'))

cnn.add(MaxPool2D(pool\_size=3,strides=1))

cnn.add(Dropout(0.2))

cnn.add(BatchNormalization())

cnn.add(Conv2D(filters=32,kernel\_size=3,activation='relu'))

cnn.add(MaxPool2D(pool\_size=3,strides=1))

cnn.add(Dropout(0.2))

cnn.add(BatchNormalization())

cnn.add(Conv2D(filters=32,kernel\_size=3,activation='relu'))

cnn.add(MaxPool2D(pool\_size=3,strides=1))

cnn.add(Dropout(0.2))

cnn.add(BatchNormalization())

cnn.add(Conv2D(filters=32,kernel\_size=3,activation='relu'))

cnn.add(MaxPool2D(pool\_size=3,strides=1))

cnn.add(Dropout(0.2))

cnn.add(BatchNormalization())

cnn.add(GlobalAveragePooling2D(data\_format='channels\_last'))

cnn.add(Dense(units=10,activation='softmax'))

**Accuracy Score**:

32%. Due to lack of computation power number of epochs had to be set to less, so the accuracy is low.

**Dataset:**

Dataset was downloaded from Kaggle.

**Contributors:**

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