

```
In [ ]: !pip install spectral
      Collecting spectral
        Downloading spectral-0.23.1-py3-none-any.whl (212 kB)
                                                    - 212.9/212.9 kB 4.1 MB/s eta 0:0
      0:00
      Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages
       (from spectral) (1.23.5)
       Installing collected packages: spectral
       Successfully installed spectral-0.23.1
In [ ]: import keras
        import tensorflow as tf
        from keras.layers import Conv2D, Conv3D, Flatten, Dense, Reshape, BatchNormali
        from keras.layers import Dropout, Input
        from keras.models import Model
        from tensorflow.keras.optimizers import Adam
        from keras.callbacks import ModelCheckpoint
        from tensorflow.keras.utils import to categorical
        from sklearn.decomposition import PCA
        from sklearn.model selection import train test split
        from sklearn.metrics import confusion matrix, accuracy score, classification r
        from operator import truediv
        from plotly.offline import init notebook mode
        import numpy as np
        import matplotlib.pyplot as plt
        import scipy.io as sio
        import os
        import spectral
        init notebook mode(connected=True)
        %matplotlib inline
In [ ]: if not (os.path.isfile('Indian pines corrected.mat')):
          !wget http://www.ehu.eus/ccwintco/uploads/6/67/Indian pines corrected.mat
        if not (os.path.isfile('Indian pines gt.mat')):
          !wget http://www.ehu.eus/ccwintco/uploads/c/c4/Indian pines gt.mat
```

```
--2023-12-09 17:24:40-- http://www.ehu.eus/ccwintco/uploads/6/67/Indian pine
s corrected.mat
Resolving www.ehu.eus (www.ehu.eus)... 158.227.0.65, 2001:720:1410::65
Connecting to www.ehu.eus (www.ehu.eus)|158.227.0.65|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.ehu.eus/ccwintco/uploads/6/67/Indian pines corrected.mat
[following]
--2023-12-09 17:24:40-- https://www.ehu.eus/ccwintco/uploads/6/67/Indian pine
s corrected.mat
Connecting to www.ehu.eus (www.ehu.eus)|158.227.0.65|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5953527 (5.7M)
Saving to: 'Indian pines corrected.mat'
Indian pines correc 100%[==========] 5.68M 1.62MB/s
                                                                 in 3.5s
2023-12-09 17:24:44 (1.62 MB/s) - 'Indian pines corrected.mat' saved [5953527/5
953527]
URL transformed to HTTPS due to an HSTS policy
--2023-12-09 17:24:44-- https://www.ehu.eus/ccwintco/uploads/c/c4/Indian pine
s gt.mat
Resolving www.ehu.eus (www.ehu.eus)... 158.227.0.65, 2001:720:1410::65
Connecting to www.ehu.eus (www.ehu.eus)|158.227.0.65|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1125 (1.1K)
Saving to: 'Indian pines gt.mat'
Indian pines qt.mat 100%[=========] 1.10K --.-KB/s
2023-12-09 17:24:45 (66.7 MB/s) - 'Indian pines gt.mat' saved [1125/1125]
```

## **Data Loading**

```
return data, labels
In [ ]: def splitTrainTestSet(X, y, testRatio, randomState=345):
            X train, X test, y train, y test = train test split(X, y, test size=testRa
                                                                 stratify=y)
            return X train, X test, y train, y test
In [ ]: def applyPCA(X, numComponents=75):
            newX = np.reshape(X, (-1, X.shape[2]))
            pca = PCA(n components=numComponents, whiten=True)
            newX = pca.fit transform(newX)
            newX = np.reshape(newX, (X.shape[0],X.shape[1], numComponents))
            return newX, pca
In [ ]: def padWithZeros(X, margin=2):
            newX = np.zeros((X.shape[0] + 2 * margin, X.shape[1] + 2* margin, X.shape[
            x offset = margin
            y offset = margin
            newX[x offset:X.shape[0] + x offset, y offset:X.shape[1] + y offset, :] =
            return newX
In [ ]: def createImageCubes(X, y, windowSize=5, removeZeroLabels = True):
            margin = int((windowSize - 1) / 2)
            zeroPaddedX = padWithZeros(X, margin=margin)
            # split patches
            patchesData = np.zeros((X.shape[0] * X.shape[1], windowSize, windowSize, X
            patchesLabels = np.zeros((X.shape[0] * X.shape[1]))
            patchIndex = 0
            for r in range(margin, zeroPaddedX.shape[0] - margin):
                for c in range(margin, zeroPaddedX.shape[1] - margin):
                    patch = zeroPaddedX[r - margin:r + margin + 1, c - margin:c + margin
                    patchesData[patchIndex, :, :, :] = patch
                    patchesLabels[patchIndex] = y[r-margin, c-margin]
                    patchIndex = patchIndex + 1
            if removeZeroLabels:
                patchesData = patchesData[patchesLabels>0,:,:,:]
                patchesLabels = patchesLabels[patchesLabels>0]
                patchesLabels -= 1
            return patchesData, patchesLabels
In [ ]: X, y = loadData(dataset)
        X.shape, y.shape
Out[]: ((145, 145, 200), (145, 145))
In []: K = X.shape[2]
In [ ]: K = 30 if dataset == 'IP' else 15
        X,pca = applyPCA(X,numComponents=K)
```

```
X. shape
Out[]: (145, 145, 30)
In [ ]: X, y = createImageCubes(X, y, windowSize=windowSize)
        X.shape, y.shape
Out[]: ((10249, 25, 25, 30), (10249,))
In [ ]: Xtrain, Xtest, ytrain, ytest = splitTrainTestSet(X, y, test ratio)
        Xtrain.shape, Xtest.shape, ytrain.shape, ytest.shape
Out[]: ((3074, 25, 25, 30), (7175, 25, 25, 30), (3074,), (7175,))
        Model and Training
In [ ]: Xtrain = Xtrain.reshape(-1, windowSize, windowSize, K, 1)
        Xtrain.shape
Out[]: (3074, 25, 25, 30, 1)
In [ ]: ytrain = to categorical(ytrain)
        ytrain.shape
Out[]: (3074, 16)
In [ ]: S = windowSize
        output units = 9 if (dataset == 'PU' or dataset == 'PC') else 16
In [ ]: ## input layer
        input layer = Input((S, S, L, 1))
        ## convolutional layers
        conv layer1 = Conv3D(filters=8, kernel size=(3, 3, 7), activation='relu')(inpu
        conv layer2 = Conv3D(filters=16, kernel size=(3, 3, 5), activation='relu')(cor
        conv layer3 = Conv3D(filters=32, kernel size=(3, 3, 3), activation='relu')(cor
        #print(conv layer3. keras shape)
        conv3d shape = conv layer3.shape
        conv layer3 = Reshape((conv3d shape[1], conv3d shape[2], conv3d shape[3]*conv3
        conv layer4 = Conv2D(filters=64, kernel size=(3,3), activation='relu')(conv la
        flatten layer = Flatten()(conv layer4)
        ## fully connected layers
        dense layer1 = Dense(units=256, activation='relu')(flatten layer)
        dense layer1 = Dropout(0.4)(dense layer1)
```

```
dense layer2 = Dense(units=128, activation='relu')(dense layer1)
        dense layer2 = Dropout(0.4)(dense layer2)
        output layer = Dense(units=output units, activation='softmax')(dense layer2)
In [ ]: # define the model with input layer and output layer
        model = Model(inputs=input layer, outputs=output layer)
In [ ]: model.summary()
      Model: "model"
       Layer (type)
                                   Output Shape
                                                            Param #
                                   [(None, 25, 25, 30, 1)]
       input 1 (InputLayer)
       conv3d (Conv3D)
                                   (None, 23, 23, 24, 8)
                                                            512
       conv3d 1 (Conv3D)
                                  (None, 21, 21, 20, 16)
                                                            5776
                                  (None, 19, 19, 18, 32)
       conv3d 2 (Conv3D)
                                                            13856
       reshape (Reshape)
                                  (None, 19, 19, 576)
                                                            0
       conv2d (Conv2D)
                                 (None, 17, 17, 64)
                                                            331840
                                  (None, 18496)
       flatten (Flatten)
       dense (Dense)
                                  (None, 256)
                                                            4735232
       dropout (Dropout)
                                  (None, 256)
       dense 1 (Dense)
                                  (None, 128)
                                                            32896
       dropout 1 (Dropout)
                           (None, 128)
       dense 2 (Dense)
                                   (None, 16)
                                                            2064
      Total params: 5122176 (19.54 MB)
      Trainable params: 5122176 (19.54 MB)
      Non-trainable params: 0 (0.00 Byte)
In [ ]: from tensorflow.keras.optimizers.legacy import Adam
        # Define the learning rate and decay
```

```
In []: from tensorflow.keras.optimizers.legacy import Adam

# Define the learning rate and decay
learning_rate = 0.001
decay = 1e-06

# Create an Adam optimizer with the specified learning rate and decay
adam = Adam(learning_rate=learning_rate, decay=decay)

# Compile the model
```

```
model.compile(loss='categorical crossentropy', optimizer=adam, metrics=['accur'
In [ ]: # checkpoint
   filepath = "best-model.hdf5"
   checkpoint = ModelCheckpoint(filepath, monitor='acc', verbose=1, save best onl
   callbacks list = [checkpoint]
In []: history = model.fit(x=Xtrain, y=ytrain, batch size=256, epochs=100, callbacks=
  Epoch 1/100
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  cy: 0.1591
  Epoch 2/100
  428
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  y: 0.2433
  Epoch 3/100
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  v: 0.5007
  Epoch 4/100
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  y: 0.6809
  Epoch 5/100
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  y: 0.8165
  Epoch 6/100
  098
```

```
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9096
Epoch 7/100
362
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9362
Epoch 8/100
551
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9551
Epoch 9/100
753
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9753
Epoch 10/100
847
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9847
Epoch 11/100
863
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9863
Epoch 12/100
867
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9867
Epoch 13/100
876
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9876
Epoch 14/100
873
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9873
Epoch 15/100
870
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9870
Epoch 16/100
873
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9873
Epoch 17/100
915
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9915
Epoch 18/100
915
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9915
Epoch 19/100
951
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9951
Epoch 20/100
954
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9954
Epoch 21/100
954
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9954
Epoch 22/100
938
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9938
Epoch 23/100
977
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9977
Epoch 24/100
932
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9932
Epoch 25/100
964
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9964
Epoch 26/100
948
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9948
Epoch 27/100
964
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9964
Epoch 28/100
948
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9948
Epoch 29/100
964
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9964
Epoch 30/100
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9961
Epoch 31/100
967
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9967
Epoch 32/100
964
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9964
Epoch 33/100
954
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9954
Epoch 34/100
958
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9958
Epoch 35/100
964
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9964
Epoch 36/100
951
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9951
Epoch 37/100
967
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9967
Epoch 38/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9990
Epoch 39/100
984
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9984
Epoch 40/100
977
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9977
Epoch 41/100
971
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9971
Epoch 42/100
958
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9958
Epoch 43/100
925
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9925
Epoch 44/100
954
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9954
Epoch 45/100
984
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9984
Epoch 46/100
990
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9990
Epoch 47/100
984
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9984
Epoch 48/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9980
Epoch 49/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9980
Epoch 50/100
984
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9984
Epoch 51/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9987
Epoch 52/100
971
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9971
Epoch 53/100
971
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9971
Epoch 54/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9980
Epoch 55/100
974
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9974
Epoch 56/100
961
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9961
Epoch 57/100
974
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9974
Epoch 58/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9987
Epoch 59/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9980
Epoch 60/100
977
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9977
Epoch 61/100
987
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9987
Epoch 62/100
971
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9971
Epoch 63/100
990
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9990
Epoch 64/100
980
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9980
Epoch 65/100
984
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9984
Epoch 66/100
977
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9977
Epoch 67/100
993
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9993
Epoch 68/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9990
Epoch 69/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9987
Epoch 70/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9987
Epoch 71/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9980
Epoch 72/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9990
Epoch 73/100
987
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9987
Epoch 74/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9980
Epoch 75/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9987
Epoch 76/100
984
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9984
Epoch 77/100
993
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9993
Epoch 78/100
997
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9997
Epoch 79/100
997
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9997
Epoch 80/100
984
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9984
Epoch 81/100
971
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9971
Epoch 82/100
993
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9993
Epoch 83/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9990
Epoch 84/100
980
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9980
Epoch 85/100
984
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9984
Epoch 86/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9990
Epoch 87/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9987
Epoch 88/100
987
WARNING:tensorflow:Can save best model only with acc available, skipping.
v: 0.9987
Epoch 89/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9990
Epoch 90/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9990
Epoch 91/100
974
WARNING: tensorflow: Can save best model only with acc available, skipping.
v: 0.9974
Epoch 92/100
990
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9990
Epoch 93/100
984
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9984
Epoch 94/100
990
WARNING:tensorflow:Can save best model only with acc available, skipping.
y: 0.9990
Epoch 95/100
977
WARNING: tensorflow: Can save best model only with acc available, skipping.
y: 0.9977
Epoch 96/100
984
WARNING: tensorflow: Can save best model only with acc available, skipping.
```

```
v: 0.9984
  Epoch 97/100
  993
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  v: 0.9990
  Epoch 98/100
  450
  WARNING: tensorflow: Can save best model only with acc available, skipping.
  y: 0.9447
  Epoch 99/100
  470
  WARNING:tensorflow:Can save best model only with acc available, skipping.
  y: 0.8471
  Epoch 100/100
  613
  WARNING:tensorflow:Can save best model only with acc available, skipping.
  v: 0.9613
In [ ]: model.save("best-model.hdf5")
  /usr/local/lib/python3.10/dist-packages/keras/src/engine/training.py:3079: User
  Warning:
  You are saving your model as an HDF5 file via `model.save()`. This file format
  is considered legacy. We recommend using instead the native Keras format, e.g.
  `model.save('my model.keras')`.
In [ ]: model.save('my model.keras')
```

## **Validation**

```
In [ ]: # load best weights
        model.load weights("best-model.hdf5")
        model.compile(loss='categorical crossentropy', optimizer=adam, metrics=['accur'
In [ ]: Xtest = Xtest.reshape(-1, windowSize, windowSize, K, 1)
        Xtest.shape
Out[]: (7175, 25, 25, 30, 1)
In [ ]: ytest = to categorical(ytest)
        ytest.shape
Out[]: (7175, 16)
In [ ]: Y pred test = model.predict(Xtest)
        y pred test = np.argmax(Y pred test, axis=1)
        classification = classification_report(np.argmax(ytest, axis=1), y_pred_test)
        print(classification)
       225/225 [============ ] - 3s 11ms/step
                     precision
                                  recall f1-score
                                                     support
                  0
                          0.97
                                    1.00
                                              0.98
                                                          32
                  1
                          0.99
                                    0.99
                                              0.99
                                                        1000
                  2
                                    0.97
                          1.00
                                              0.98
                                                         581
                  3
                          0.99
                                    0.96
                                              0.97
                                                         166
                  4
                          0.99
                                    0.99
                                              0.99
                                                         338
                  5
                          0.99
                                    0.99
                                              0.99
                                                         511
                  6
                          1.00
                                    0.90
                                              0.95
                                                          20
                  7
                          0.99
                                    1.00
                                              0.99
                                                         335
                  8
                          1.00
                                    0.64
                                              0.78
                                                          14
                  9
                          1.00
                                    1.00
                                              1.00
                                                         680
                 10
                          0.98
                                    0.99
                                              0.98
                                                        1719
                 11
                          0.97
                                    0.93
                                              0.95
                                                         415
                                                         143
                 12
                          0.99
                                    0.99
                                              0.99
                 13
                          0.97
                                    1.00
                                              0.99
                                                         886
                 14
                          0.99
                                    1.00
                                              1.00
                                                         270
                 15
                          1.00
                                    0.92
                                              0.96
                                                          65
           accuracy
                                              0.99
                                                        7175
                          0.99
                                    0.96
                                              0.97
                                                        7175
          macro avg
                          0.99
                                    0.99
                                              0.99
                                                        7175
      weighted avg
In [ ]: def AA andEachClassAccuracy(confusion matrix):
            counter = confusion_matrix.shape[0]
            list diag = np.diag(confusion matrix)
            list raw sum = np.sum(confusion matrix, axis=1)
```

```
average acc = np.mean(each acc)
             return each acc, average acc
In [ ]: def reports (X test,y test,name):
            #start = time.time()
            Y pred = model.predict(X test)
            y pred = np.argmax(Y pred, axis=1)
            #end = time.time()
            #print(end - start)
            if name == 'IP':
                 target names = ['Alfalfa', 'Corn-notill', 'Corn-mintill', 'Corn'
                                  ,'Grass-pasture', 'Grass-trees', 'Grass-pasture-mowed'
                                 'Hay-windrowed', 'Oats', 'Soybean-notill', 'Soybean-mi
'Soybean-clean', 'Wheat', 'Woods', 'Buildings-Grass-Tr
                                  'Stone-Steel-Towers']
            elif name == 'SA':
                 target names = ['Brocoli green weeds 1', 'Brocoli green weeds 2', 'Fallo
                                  'Stubble','Celery','Grapes_untrained','Soil_vinyard_de
                                  'Lettuce romaine 4wk', 'Lettuce romaine 5wk', 'Lettuce r
                                  'Vinyard untrained', 'Vinyard vertical trellis']
            elif name == 'PU':
                 target names = ['Asphalt','Meadows','Gravel','Trees', 'Painted metal s
                                  'Self-Blocking Bricks','Shadows']
            classification = classification report(np.argmax(y test, axis=1), y pred,
            oa = accuracy score(np.argmax(y test, axis=1), y pred)
             confusion = confusion matrix(np.argmax(y test, axis=1), y pred)
             each acc, aa = AA andEachClassAccuracy(confusion)
            kappa = cohen kappa score(np.argmax(y test, axis=1), y pred)
            score = model.evaluate(X test, y test, batch size=32)
            Test Loss = score[0]*100
            Test accuracy = score[1]*100
             return classification, confusion, Test Loss, Test accuracy, oa*100, each a
In [ ]: classification, confusion, Test loss, Test accuracy, oa, each acc, aa, kappa =
        classification = str(classification)
        confusion = str(confusion)
        file name = "classification report.txt"
        with open(file_name, 'w') as x_file:
            x file.write('{} Test loss (%)'.format(Test_loss))
            x file.write('\n')
            x file.write('{} Test accuracy (%)'.format(Test accuracy))
            x file.write('\n')
            x file.write('\n')
            x file.write('{} Kappa accuracy (%)'.format(kappa))
            x file.write('\n')
            x file.write('{} Overall accuracy (%)'.format(oa))
            x file.write('\n')
            x file.write('{} Average accuracy (%)'.format(aa))
            x file.write('\n')
```

each acc = np.nan to num(truediv(list diag, list raw sum))

```
x file.write('\n')
           x file.write('{}'.format(classification))
           x file.write('\n')
           x file.write('{}'.format(confusion))
      225/225 [========== ] - 2s 10ms/step
      cy: 0.9862
In [ ]: def Patch(data,height index,width index):
           height slice = slice(height index, height index+PATCH SIZE)
           width slice = slice(width index, width index+PATCH SIZE)
           patch = data[height slice, width slice, :]
           return patch
In [ ]: # load the original image
       X, y = loadData(dataset)
In [ ]: height = y.shape[0]
       width = y.shape[1]
       PATCH SIZE = windowSize
       numComponents = K
In [ ]: X,pca = applyPCA(X, numComponents=numComponents)
In [ ]: X = padWithZeros(X, PATCH SIZE//2)
In [ ]: # calculate the predicted image
       outputs = np.zeros((height,width))
       for i in range(height):
           for j in range(width):
               target = int(y[i,j])
               if target == 0:
                  continue
               else:
                  image patch=Patch(X,i,j)
                  X test image = image patch.reshape(1,image patch.shape[0],image pa
                  prediction = (model.predict(X test image))
                  prediction = np.argmax(prediction, axis=1)
                  outputs[i][j] = prediction+1
```

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1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	35ms/step
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1/1	[======]	-	0s	24ms/step
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1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	24ms/step
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1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	27ms/step
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1/1	[=======]	-	0s	25ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=======]	-	0s	36ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
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1/1	[======]	-	0s	23ms/step
,	[======]	-	0s	24ms/step
1/1	[======]	-	0s	27ms/step
-, -	[======]	-	0s	25ms/step
1/1	[======]	-	0s	29ms/step
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-/ -			03	3/ 3 ccp

1/1 [======] - 0s 37ms/step

-/ -			00	20m3/310p
1/1	[===========]	-	0s	42ms/step
1/1	[======================================	-	0s	27ms/step
1/1	[======================================	-	0s	27ms/step
1/1	[======================================	-	0s	29ms/step
1/1	[===========]	-	0s	30ms/step
1/1	[===========]	-	0s	27ms/step
1/1	[===========]	-	0s	25ms/step
1/1	[===========]	-	0s	38ms/step
1/1	[==========]	-	0s	33ms/step
1/1	[==========]	-	0s	25ms/step
1/1	[==========]	-	0s	38ms/step
1/1	[==========]	-	0s	32ms/step
1/1	[==========]	-	0s	33ms/step
1/1	[==========]	-	0s	27ms/step
1/1	[==========]	-	0s	35ms/step
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1/1	[==========]	-	0s	24ms/step
1/1	[==========]	-	0s	24ms/step
1/1	[==========]	-	0s	28ms/step
1/1	[==========]	-	0s	55ms/step
1/1	[==========]	-	0s	53ms/step
1/1	[==========]	-	0s	29ms/step
1/1	[==========]	-	0s	48ms/step
1/1	[==========]	-	0s	44ms/step
1/1	[==========]	-	0s	30ms/step
1/1	[==========]	-	0s	24ms/step
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1/1	[=======]	-	0s	54ms/step
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1/1	[======]	-	٥S	∠4ms/step

1/1 [======] - 0s 28ms/step

1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	30ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	30ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	24ms/step
1/1	[=======]	_	0s	24ms/step
1/1	[========]	_	0s	24ms/step
1/1	[=======]	_	0s	25ms/step
1/1	[=======]	_	0s	27ms/step
1/1	[=======]	_	0s	34ms/step
1/1	[=======]	_		25ms/step
1/1	[=======]	_		29ms/step
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1/1	[=======]	_		24ms/step
1/1	[=======]	_	_	26ms/step
1/1	[=======]	_	_	24ms/step
1/1	[=======]	_	_	24ms/step
1/1	[=======]	_	0s	26ms/step
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1/1				22ms/step
1/1	[======]			26ms/step
1/1	[======]			25ms/step
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1/1	[======]			25ms/step
1/1	[=======]			24ms/step
1/1	[=======]			•
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-/ -			0.5	_55, 5 ccp

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	[===========			
	[======================================			24ms/step
-	[=========]		0s	26ms/step
1/1	[===========]	-	0s	24ms/step
1/1	[============]	-	0s	23ms/step
1/1	[============]	-	0s	24ms/step
1/1	[======================================	-	0s	31ms/step
1/1	[======================================	-	0s	24ms/step
1/1	[============]	-	0s	32ms/step
1/1	[============]	-	0s	27ms/step
1/1	[===========]	-	0s	29ms/step
1/1	[===========]	-	0s	28ms/step
1/1	[===========]	-	0s	33ms/step
1/1	[============]	-	0s	30ms/step
1/1	- [ ========== ]	-	0s	35ms/step
1/1	- [ =========== ]	-	0s	30ms/step
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	[ =========== ]			32ms/step
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1/1 [======] - 0s 24ms/step

			_	
1/1	-			
1/1	-			37ms/step
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1/1	[======]	-	0s	25ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=======]	-	0s	27ms/step
1/1	[======]		0s	24ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=======]	-	0s	24ms/step
1/1	[=======]	-	0s	23ms/step
1/1	[=======]	-	0s	27ms/step
1/1	[=======]	-	0s	27ms/step
1/1	[=======]	-	0s	40ms/step
1/1	[======]	-	0s	24ms/step
1/1	[=======]	-	0s	34ms/step
1/1	[=======]	-	0s	29ms/step
1/1	[=======]	-	0s	24ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	28ms/step
1/1	[=======]	-	0s	41ms/step
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1/1	-		0s	•
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1/1	[=======]		0s	36ms/step
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Τ/ Ι	[=====]	-	٥S	5/ms/step

1/1	[======]	-	0s	46ms/step
1/1	[======]	-	0s	35ms/step
1/1	[======]	-	0s	41ms/step
1/1	[======]	-	0s	41ms/step
1/1	[======]	-	0s	62ms/step
1/1	[======]	-	0s	46ms/step
1/1	[======]	-	0s	43ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	37ms/step
1/1	[======]	-	0s	28ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	27ms/step
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1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	23ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	31ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-		24ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-		26ms/step
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1/1	[=====]	-	US	zoms/step

1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	23ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	30ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
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1/1	[======]	-	0s	23ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	30ms/step
1/1	[======]	-	0s	30ms/step
1/1	[======]	-	0s	24ms/step
1/1	[=======]	_	0s	25ms/step
1/1	[========]	_	0s	24ms/step
1/1	[=======]	_	0s	23ms/step
1/1	[=======]	_	0s	34ms/step
1/1	[=======]	_	0s	30ms/step
1/1	[=======]	_		23ms/step
1/1	[=======]	_		24ms/step
1/1	[=======]	_		25ms/step
1/1	[=======]	_	0s	31ms/step
1/1	[=======]	_		24ms/step
1/1	[=======]	_	_	25ms/step
1/1	[=======]	_	_	23ms/step
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1/1				24ms/step
1/1	[======]			23ms/step
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-/ -			0.5	_55, 5 ccp

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	[=======]			
1/1				24ms/step
	[========]			26ms/step
	[========]			26ms/step
•	[=======]			30ms/step
1/1	[=======]			25ms/step
1/1	[======]			24ms/step
1/1	[======]			26ms/step
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1/1				24ms/step
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	[======]			24ms/step
•	[======]			31ms/step
1/1	[======]		0s	24ms/step
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1/1	[======]			,
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1/1	[======]	-		23ms/step
1/1				24ms/step
,	[======]			28ms/step
1/1	[=======]		0s	24ms/step
1/1	[=======]	-	0s	26ms/step
1/1	[=======]	-	0s	27ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	28ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	37ms/step
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1/1	[======]	-	0s	39ms/step
1/1	[======]	-	0s	34ms/step
1/1	[======]	-	0s	31ms/step
1/1	[======]	-	0s	37ms/step
1/1	[======]	-	0s	50ms/step
1/1	[======]	-	0s	38ms/step
1/1	[======]	-	0s	48ms/step
1/1	[======]	-	0s	28ms/step
1/1	[======]	-	0s	33ms/step
1/1	[======]	-	0s	50ms/step
1/1	[======]	-	0s	30ms/step
1/1	[=======]	-	0s	45ms/step
1/1	[=======]	-	0s	32ms/step
1/1	[======]	-	0s	42ms/step
1/1	[=======]	-	0s	53ms/step
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•	[========]			54ms/step
•	[=======]			60ms/step
1/1	[=======]			51ms/step
1/1	[======]			26ms/step
1/1	[======]		0s	
1/1				36ms/step
1/1				52ms/step
1/1				29ms/step
•	[======]			32ms/step
•	[======]			39ms/step
1/1	[======]		0s	31ms/step
1/1	[======]		0s	24ms/step
1/1	[======]		0s	25ms/step
1/1	[======]	-	0s	24ms/step
1/1	[=======]	-	0s	24ms/step
1/1	[=======]	-	0s	23ms/step
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1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	24ms/step
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1/1	[======]	-	0s	23ms/step
1/1	[======]	-	0s	23ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	28ms/step
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1/1	[=======]	-	0s	27ms/step
1/1	[======]	-	0s	31ms/step
1/1	[======]	-	0s	37ms/step
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1/1	[======]	-	0s	29ms/step
1/1	[======]	-	0s	53ms/step
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1/1	[======]	-	0s	33ms/step
1/1	[======]	-	0s	39ms/step
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1/1	[======]	-	0s	36ms/step
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1/1	[======]	-	0s	58ms/step
1/1	[======]	-	0s	39ms/step
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1/1	[======]	-	0s	77ms/step
1/1	[======]	-	0s	40ms/step
1/1	[======]	-	0s	37ms/step
1/1	[======]	-	0s	36ms/step
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1/1	[=======]	_		43ms/step
1/1	[=======]	_	0s	30ms/step
1/1	[=======]	_	0s	30ms/step
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1/1	-	-		30ms/step
1/1		-		34ms/step
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1/1	[=======]		0s	
1/1	[=======]		0s	
1/1	[=======]			
1/1				25ms/step
1/1	-			30ms/step
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1/1	[========]			33ms/step
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1/1	[======]			,
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1/1	[======]	-		25ms/step
1/1	[======]	-	0s	24ms/step
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1/1	[=======]	-	0s	34ms/step
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1/1	[======]	-	0s	54ms/step
1/1	[======]	-	0s	27ms/step
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-/ -			0.5	_55, 5 сер

-/ -			00	2 ms, 5 ccp
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1/1	[======]	-	0s	36ms/step
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1/1	[======]	-	0s	46ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	38ms/step
1/1	[=======]	-	0s	41ms/step
1/1	[=======]	-	0s	24ms/step
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1/1	[=======]	-	0s	52ms/step
1/1	[=======]	-	0s	33ms/step
1/1	[=======]	-	0s	26ms/step
1/1	[=======]	-	0s	57ms/step
1/1	[=======]	-	0s	35ms/step
1/1	[=======]	-	0s	41ms/step
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1/1	[======]	-	0s	52ms/step
1/1	[======]	-	0s	47ms/step
1/1	[=======]	-	0s	37ms/step
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1/1	[===========]	-	0s	26ms/step
1/1	[===========]	-	0s	23ms/step
1/1	[===========]	-	0s	24ms/step
1/1	[===========]	-	0s	23ms/step
1/1	[===========]	-	0s	24ms/step
1/1	[===========]	-	0s	25ms/step
1/1	[===========]	-	0s	23ms/step
1/1	[======================================	-	0s	24ms/step
1/1	[===========]	-	0s	23ms/step
1/1	[============]	-	0s	28ms/step
1/1	[============]	-	0s	23ms/step
1/1	[===========]	-	0s	25ms/step
1/1	- [============]	-	0s	26ms/step
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1/1	[======================================	-	0s	32ms/step

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1/1	[=======]		0s	41ms/step
1/1	[=======]	-	0s	31ms/step
1/1	[=======]	-	0s	30ms/step
1/1	[=======]	-	0s	30ms/step
1/1	[=======]	-	0s	39ms/step
1/1	[======]	-	0s	30ms/step
1/1	[======]	-	0s	38ms/step
1/1	[======]	-	0s	55ms/step
1/1	[=======]	-	0s	33ms/step
1/1	[=======]	-	0s	55ms/step
1/1	[======]	-	0s	33ms/step
1/1	[======]	-	0s	36ms/step
1/1	[======]	-	0s	56ms/step
1/1	[======]	-	0s	41ms/step
1/1	[======]	-	0s	40ms/step
1/1	[=======]	-	0s	37ms/step
1/1	[=======]	-	0s	30ms/step
1/1	[=======]	_	0s	34ms/step
1/1	[=======]	_	0s	40ms/step
1/1	[=======]	_	0s	31ms/step
1/1	-		0s	40ms/step
	[=======]		0s	54ms/step
1/1	[=======]		0s	42ms/step
1/1	[=======]		0s	24ms/step
1/1	[======]		0s	29ms/step
1/1	[=======]		0s	29ms/step
1/1	[=======]	_	0s	31ms/step
1/1	[=======]		0s	25ms/step
1/1	-		0s	29ms/step
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Τ/ Ι			03	54m5/3 ccp

1/1 [======] - 0s 52ms/step

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	[=======]			
1/1				37ms/step
	[========]			25ms/step
	[========]			27ms/step
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1/1	[======]	-	0s	26ms/step
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1/1	[======]	-	0s	27ms/step
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1/1	[======]	-	0s	23ms/step
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1/1	[======]	-	0s	24ms/step

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1/1	[======]	-	0s	35ms/step
1/1	[======]	-	0s	23ms/step
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1/1	[=======]	_		25ms/step
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1/1	[=======]	_		24ms/step
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1/1	[============]	-	0s	34ms/step
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1/1	[======================================	-	0s	33ms/step
1/1	[======================================	-	0s	36ms/step
1/1	[===========]	-	0s	29ms/step
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•	[ ====================================	•	0s	27ms/step
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1/1 [======] - 0s 24ms/step

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1/1	[======]	-	0s	25ms/step
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1/1	[======]	-	0s	24ms/step
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1/1	[======]	-	0s	23ms/step
1/1	[======]	-	0s	39ms/step
1/1	[=======]	-	0s	24ms/step
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1/1 [======] - 0s 24ms/step

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1/1	[======]	-	0s	26ms/step
1/1	[======]	-	0s	24ms/step
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1/1 [======] - 0s 24ms/step

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1/1	[======]	-	0s	26ms/step
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1/1	[======]	-	0s	24ms/step
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1/1	[=========]	_	0s	24ms/step
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1/1	[========]	_	0s	24ms/step
1/1	[=======]	_	0s	24ms/step
1/1	[=======]	_	0s	35ms/step
1/1	[========]	_	0s	25ms/step
1/1	[=======]	_	0s	24ms/step
1/1	[=======]	_	0s	24ms/step
1/1	[=======]	_	0s	26ms/step
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1/1 [======] - 0s 47ms/step

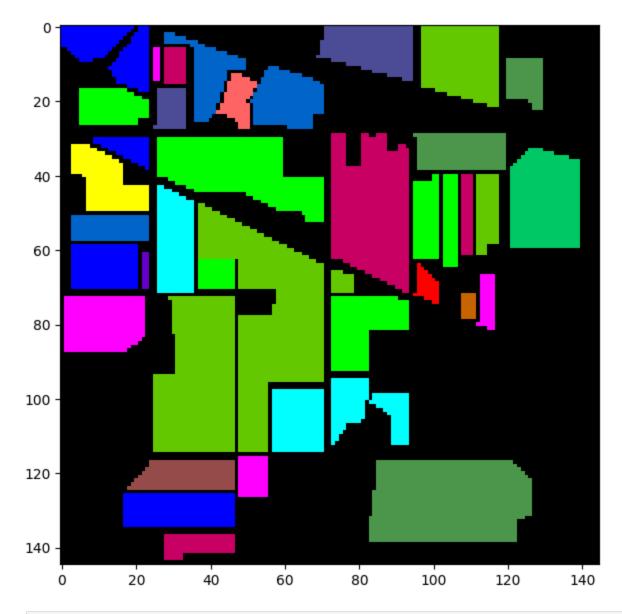
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```
1/1 [======= ] - 0s 36ms/step
1/1 [=======] - 0s 29ms/step
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1/1 [=======] - 0s 30ms/step
1/1 [=======] - 0s 33ms/step
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1/1 [======= ] - 0s 35ms/step
1/1 [======= ] - 0s 49ms/step
```

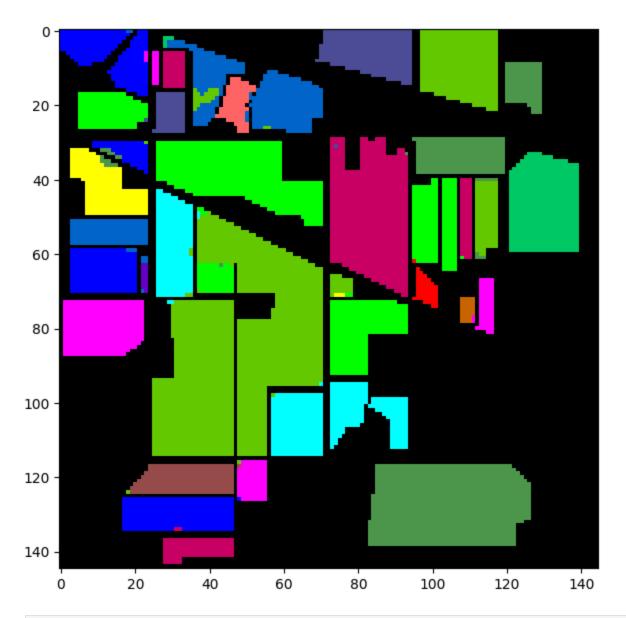
```
In [ ]: ground_truth = spectral.imshow(classes = y,figsize =(7,7))
```

/usr/local/lib/python3.10/dist-packages/spectral/graphics/spypylab.py:796: User Warning:

Failed to create RectangleSelector object. Interactive pixel class labeling wil l be unavailable.



In [ ]: predict\_image = spectral.imshow(classes = outputs.astype(int), figsize =(7,7))



In [ ]: spectral.save\_rgb("predictions.jpg", outputs.astype(int), colors=spectral.spy\_