Approach:

* Imported all the necessary libraries
* Using Conv2d and MaxPooling2D layers
* Create object of sequential class with coding of the convolution step
* Perform pooling operations on the resultant feature of the convolution step
* Flattening all the pooled features
* Create a fully connected layer
* Compile the CNN model
* Use adam optimizer and cross entropy loss function
* Fit data to the CNN model
* Save the model
* Test model
* Calculate ROC\_AUC score for the model
* Calculate kappa values from the confusion matrix