

MODEL TUNNING:-

```
y_pred = ner_model.predict(X_test)

y_pred = np.argmax(y_pred, axis=2)

y_test = np.argmax(y_test, axis=2)

accuracy = (y_pred == y_test).mean()

print("Accuracy: {:.4f}/".format(accuracy))

def tag_conf_matrix(cm, tagid):
    tag_name = index2tag[tagid]
    print("Tag name: {}".format(tag_name))
    print(cm[tagid])
    tn, fp, fn, tp = cm[tagid].ravel()
    tag_acc = (tp + tn) / (tn + fp + fn + tp)
    print("Tag accuracy: {:.3f} \n".format(tag_acc))

matrix = multilabel_confusion_matrix(y_test.flatten(), y_pred.flatten())

tag_conf_matrix(matrix, 8)
tag_conf_matrix(matrix, 14)
```