### **Challenge 2**

#### **Total Hours:** 10

#### **Challenge Description**

The Challenge will be to identify the sentiment in the text in the imdb\_reviews. The data imdb\_reviews for the training has to be taken from tensorflow tfds.

#### **Train Dataset**

Please refer to the imdb\_reviews dataset in tensorflow tfds

#### **Test Dataset**



#### API to submit

* The dataString variable will be a combination of Id and value. There is no need to submit the column names. It is assumed that the first column is a Id and the second column is predicted the value. In this particular scenario, the value will be either 1 or 0
* The dataSet data frame is the collection of predicted results
* This will be limited to 3 attempts
* The baseline score for this challenge is 0.8 and above (f1 score)

import requests

dataString = ""

for loop in range(datSet.shape[0]):

  if loop == 0:

    dataString = str(int(dataSet[loop][0]))+','+str(int(dataSet[loop][1]))

  else:

    dataString = dataString+"\n"+str(int(dataSet[loop][0]))+','+str(int(dataSet[loop][1]))

postData = {}

postData['challengeName'] = 'sentiment'

postData['userID'] = <<Your Employee Id>>

postData['challengeType'] = 'binaryclassification'

postData['submissionsData'] = dataString

url = 'https://8n46gxwibi.execute-api.us-east-2.amazonaws.com/default/computeModelScore'

x = requests.post(url,json=postData)

print(x.text)