## **Report for Lab 8**

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1)Sentimental analysis using twitter streaming (related to your project)

## **Description:**

We have collected the tweet data for our project and performs Sentimental Analysis by using that data. The output is in the form like positive or negative is we have given the cases like from 0-very bad to 5-very good.

### **Screenshots:**

```
val wc = stream.map(status => status.getText())

wc.foreachRDD(rdd => {
  val count = rdd.count().toInt
  val lines = rdd.take(count)

lines.foreach(line=>{ val sentimentAnalyzer: SentimentAnalyzer = new SentimentAnalyzer
  val tweetWithSentiment: TweetWithSentiment = sentimentAnalyzer.findSentiment(line)
  System.out.println(tweetWithSentiment)
}

}
```

2) Make recommendations (related to your own project)

# **Description:**

We are recommending the doctors for the users, according to the need and users rating. We take randomly 10 doctors, and recommended 10 of them based on their ratings.

#### **Screenshots:**



```
val ranks = List(8, 12)
val lambdas = List(0.1, 10.0)
val numIters = List(10, 20)
var bestModel: Option[MatrixFactorizationModel] = None
var bestValidationRmse = Double.MaxValue
var bestRank = 0
var bestLambda = -1.0
var bestNumIter = -1
for (rank <- ranks; lambda <- lambdas; numIter <- numIters) {
 val model = ALS.train(training, rank, numIter, lambda)
 val validationRmse = computeRmse(model, validation, numValidation)
 println("RMSE (validation) = " + validationRmse + " for the model trained with rank = "
   + rank + ", lambda = " + lambda + ", and numIter = " + numIter + ".")
  if (validationRmse < bestValidationRmse) {
   bestModel = Some(model)
   bestValidationRmse = validationRmse
   bestRank = rank
   bestLambda = lambda
   bestNumIter = numIter
```

## 3) Twitter trend notification to smartphone/smartwatch

### **Screenshots:**

line=RT @SouPositividade: Deus me disse barcinho: "Va: dar tudo certo" ???, cssClass=sentiment neutral line=RT @LIV Addict Arfield https://t.co/orkBk3y57E, cssClass=sentiment : line=RT @souliatan: It's A Goyard Thing. https://t.co/j15lcqyL2s, cssClass=sentiment neutral line=RT @capricomic\_hn: #CAPRICORNIO necesita desesperadamente que le digan que es buen@, bell@, inteligente, trabajador/a...Tampoco pide mucho..., cssClass=sentiment positive cssClass=sentiment : positive line=RT @mcuadra05: Al aire por @raciopanama 94.5 FM desde @HcotersPanama en Albrook https://t.co/M3SsdLOFya, cssClass=sentiment: line=RT @sesamestreet Playing dress up is always fun! Help Grover's Chicken friends try on new fashionable pieces! https://t.co/VLoJFZZbQw.http..., cssClass=sentiment positive line=RT @steriops: TTFH 2015/Yillik Kari 57.696.046 Önceki Kari 9.889.926 +Pozitif, cssClass=sentiment : negative line=RT @jimmyunwangyy254: #Politics101 @KoinangeJeff how on earth do you insult our intelligence by having?? @CKirubi amongst @ltsPLOLumumba & ..., cssClass=sentiment negative line=RT @ahmylttlemix: Nie wiem jak kylieguess ale ja w wieku 20 lat chcialabym robic cos ze swoim zyciem a nie siedziec i sie wyzywac na nasto..., cssClass=sentiment negative ∇ 0