

Lab-7

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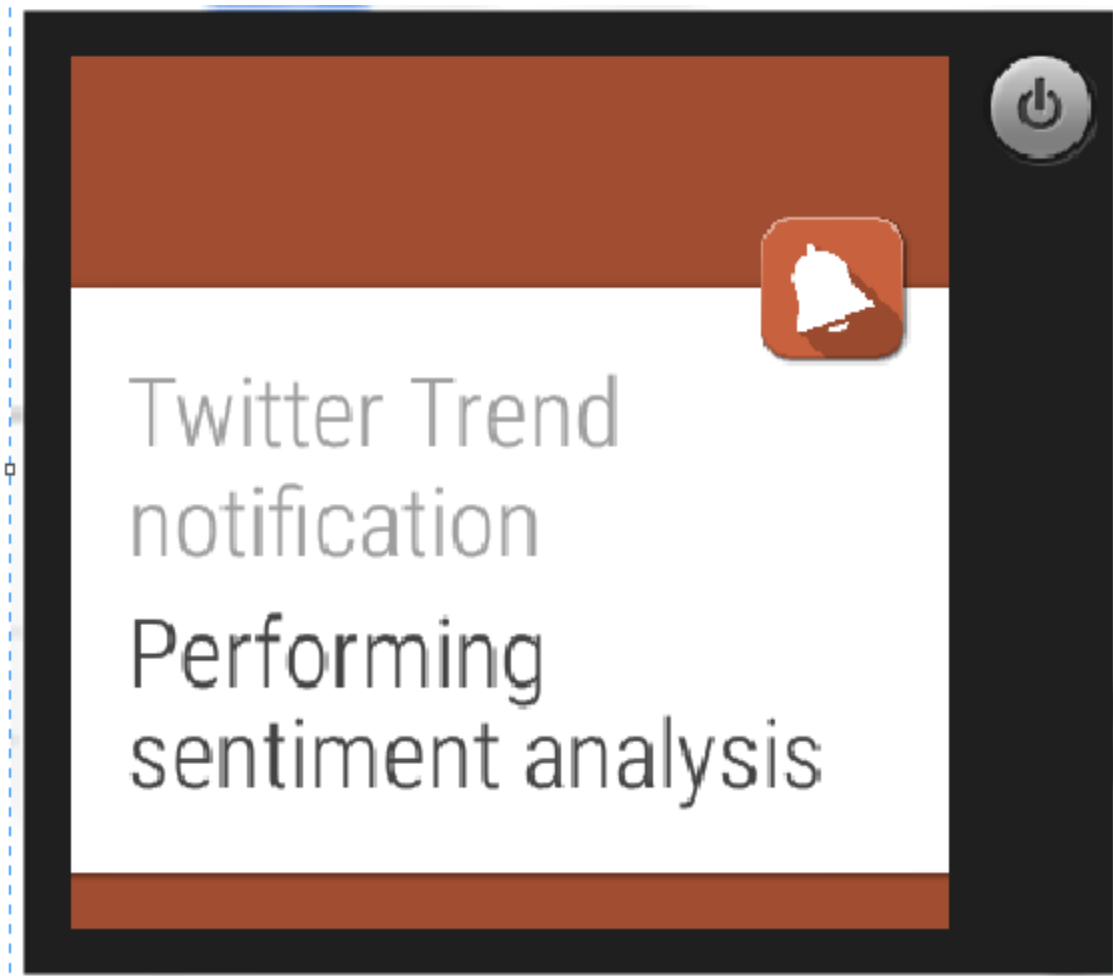
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Q1 and Q3

We have merged this two question as I am taking output of 1st question and displaying it as a notification on smartwatch. We have done twitter streaming for doing sentiment analysis by using **StanfordcoreNLP** library. We have filter out tweets as per current presidential election to decide the sentiment of the user. As its rate on scale of 1 to 5 for negative to positive, in output I am showing tweets along with its category as a notification to the smart device. Below are the snap shots for it:



SmartWear notification :



11:52 PM

Wednesday, March 9



Twitter Trend notification
Performing sentiment analysis

11:52 PM



Debugging over Bluetooth
Moto 360 8FAF

11:46 PM



Storage space running out
Some system functions may not work

7:02 PM



USB debugging connected
Touch to disable USB debugging.



Connected as a media device
Touch for other USB options.

Android, you are #2

#3 from /192.168.0.9:51447

negative]replayed: Hello from Android, you are #3

#4 from /192.168.0.9:51450

TweetWithSentiment [line=RT @LivingOnChi: Hillary Clinton incoherent on #ClimateChange, heckled by women activists... <https://t.co/mC7cUyCmnV> via @YouTube

#DemDebate, cssClass=sentiment :

negative]replayed: Hello from Android, you are #4

#5 from /192.168.0.9:51411

Emergency calls only

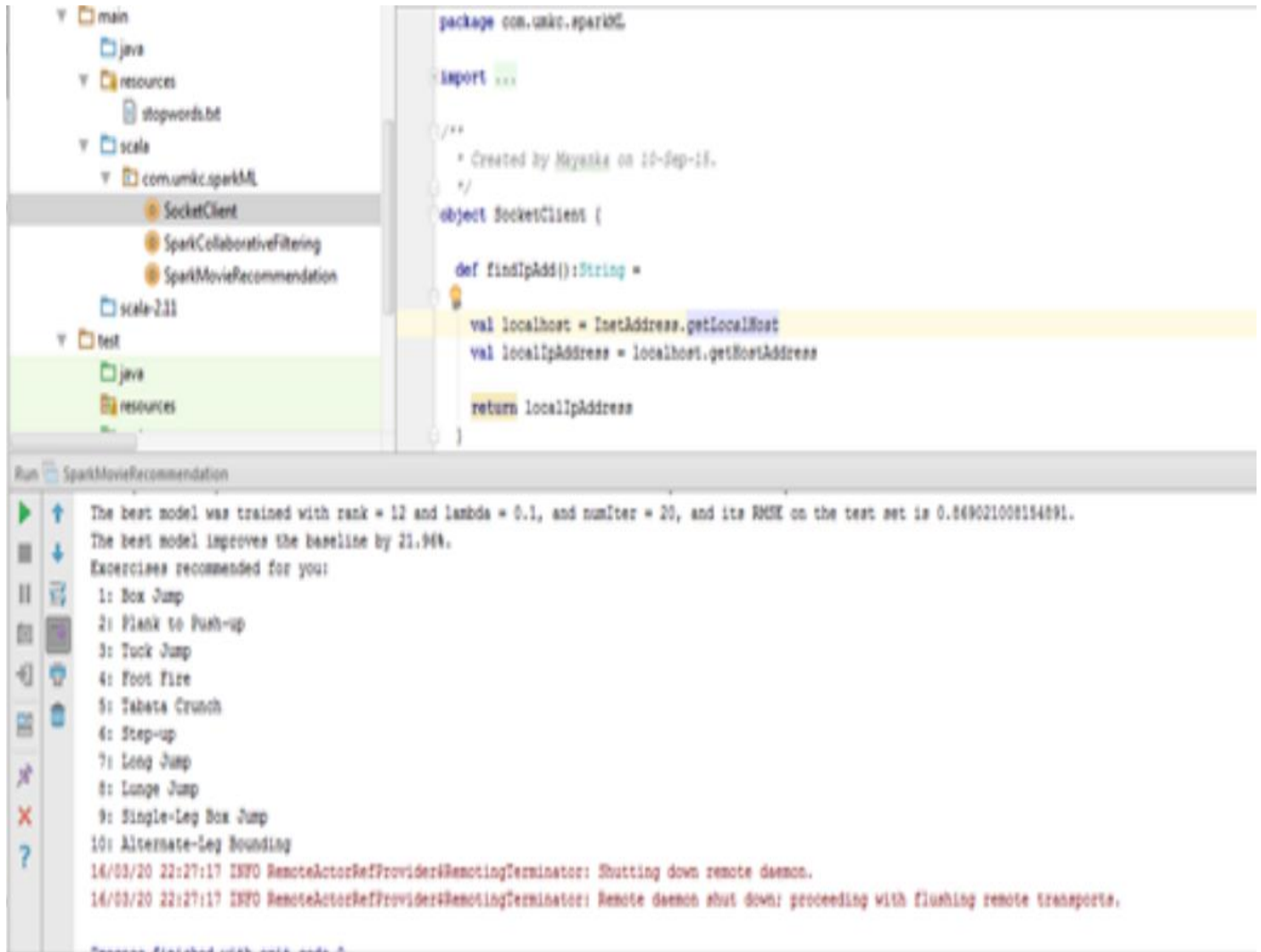


Q2 and Q4

We are trying to make recommendation system to recommend user some important exercise on basis of his input and his demographics.

Below are the screen shot for same.

Exercise recommended:



The screenshot displays an IDE with a project structure on the left and a code editor on the right. The project structure includes a `main` package with `java` and `resources` sub-packages, a `stopwords.txt` file, a `scale` package, and a `com.unik.sparibc` package containing `SocketClient`, `SparkCollaborativeFiltering`, and `SparkMovieRecommendation`. The `scale` package also contains a `scale-2.11` sub-package. The `test` package contains `java` and `resources` sub-packages.

The code editor shows the following Scala code:

```
package com.unik.sparibc

import ...

/**
 * Created by Mayanka on 10-Sep-18.
 */
object SocketClient {

  def findIpAddr():String =

    val localhost = InetAddress.getLocalHost
    val localIpAddress = localhost.getHostAddress

    return localIpAddress

}
```

The console output shows the following messages:

```
Run SparkMovieRecommendation

The best model was trained with rank = 12 and lambda = 0.1, and numIter = 20, and its RMSE on the test set is 0.849021008194891.
The best model improves the baseline by 21.94%.
Exercises recommended for you:
1: Box Jump
2: Plank to Push-up
3: Tuck Jump
4: Foot Fire
5: Tabata Crunch
6: Step-up
7: Long Jump
8: Lunge Jump
9: Single-Leg Box Jump
10: Alternate-Leg Bounding
16/03/20 22:27:17 INFO RemoteActorRefProviders$RemoteTerminator: Shutting down remote daemon.
16/03/20 22:27:17 INFO RemoteActorRefProviders$RemoteTerminator: Remote daemon shut down; proceeding with flushing remote transports.
Process finished with exit code 0
```

Wearable display

