Question 1:

Twitter Sentimental Analysis:

Sentimental Analysis on the given data(static). Based on the data given, the result will be displayed as positive or negative.
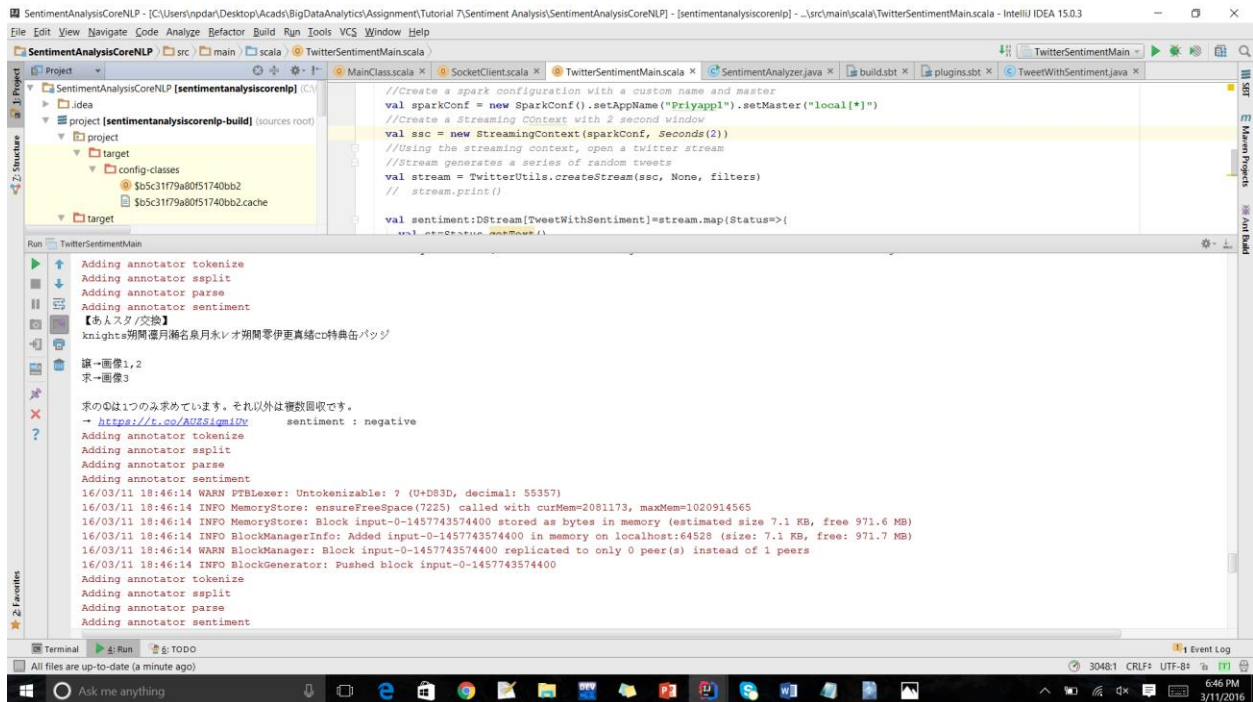
In this, I am able to provide the twitter live streaming data as an input. Here the sentimental analysis is taking place on streaming data and is able to analyze the data to be positive or negative.

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
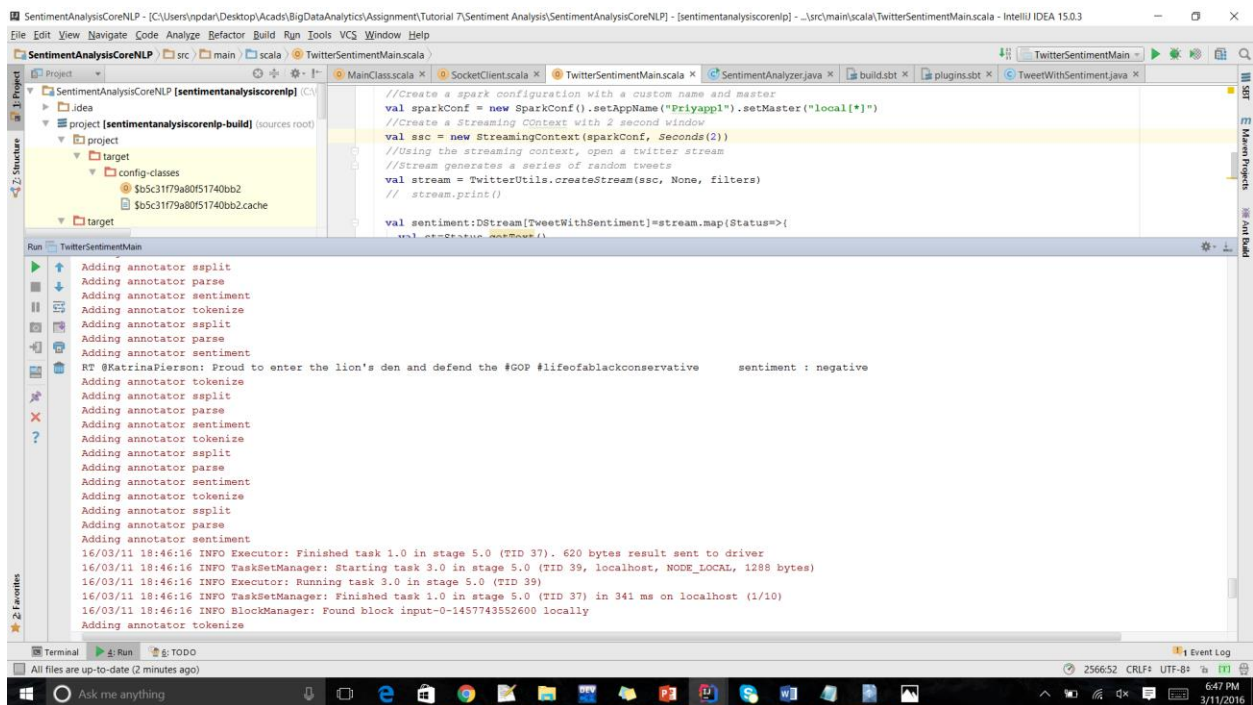
SentimentAnalysisCoreNLP › src › main › scala › TwitterSentimentMain.scala

MainClass.scala × SocketClient.scala × TwitterSentimentMain.scala × SentimentAnalyzer.java × build.sbt × plugins.sbt × TweetWithSentiment.java ×

```
//Create a spark configuration with a custom name and master
val sparkConf = new SparkConf().setAppName("Priyappl").setMaster("local[*]")
//Create a Streaming COntext with 2 second window
```

Run TwitterSentimentMain

```
16/03/11 18:46:16 INFO BlockGenerator: Pushed block input-0-1457743576400
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
I really enjoyed trying out this blush stick by @testique, I like the fact that you dont need a brush to apply :) https://t.co/2Faob6myKT        sentiment : positive
16/03/11 18:46:16 INFO MemoryStore: ensureFreeSpace(6356) called with curMem=2082453, maxMem=1020914565
16/03/11 18:46:16 INFO MemoryStore: Block input-0-1457743576600 stored as bytes in memory (estimated size 6.2 KB, free 971.6 MB)
16/03/11 18:46:16 INFO BlockManagerInfo: Added input-0-1457743576600 in memory on localhost:64528 (size: 6.2 KB, free: 971.7 MB)
16/03/11 18:46:16 WARN BlockManager: Block input-0-1457743576600 replicated to only 0 peer(s) instead of 1 peers
16/03/11 18:46:16 INFO BlockGenerator: Pushed block input-0-1457743576600
16/03/11 18:46:16 INFO BlockManagerInfo: Removed broadcast_4_piece0 on localhost:64528 in memory (size: 1051.0 B, free: 971.7 MB)
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
RT @OfficialMonstaX: [#기현] two you의 베베 커버가 공개됐습니다~~ 보여드릴 수 있어 좋아요ㅜㅜ 우리 승우할아버지 항상 챙겨드릴테니까 건강하세요ㅋ https://t.co/i9Gqr5huqc        sentiment : negative
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
```

Terminal 4: Run 6: TODO

All files are up-to-date (2 minutes ago)   2566:52 CRLF UTF-8

Ask me anything   6:48 PM 3/11/2016

```
//Create a spark configuration with a custom name and master
val sparkConf = new SparkConf().setAppName("Priyappl").setMaster("local[*]")
//Create a Streaming COntext with 2 second window
```

Run TwitterSentimentMain

```
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
16/03/11 18:46:17 WARN PTBLexer: Untokenizable: ? (U+D83D, decimal: 55357)
16/03/11 18:46:17 INFO MemoryStore: ensureFreeSpace(2518) called with curMem=2152339, maxMem=1020914565
16/03/11 18:46:17 INFO MemoryStore: Block input-0-1457743577600 stored as bytes in memory (estimated size 2.5 KB, free 971.6 MB)
16/03/11 18:46:17 INFO BlockManagerInfo: Added input-0-1457743577600 in memory on localhost:64528 (size: 2.5 KB, free: 971.6 MB)
16/03/11 18:46:17 WARN BlockManager: Block input-0-1457743577600 replicated to only 0 peer(s) instead of 1 peers
16/03/11 18:46:17 INFO BlockGenerator: Pushed block input-0-1457743577600
RT @rrt00004: The #MSM loves to trot out partisan party hacks to masquerade as objective political analysts #MichiganPrimary https://t.co/w...        sentiment : negative
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
16/03/11 18:46:17 WARN PTBLexer: Untokenizable: ? (U+D83D, decimal: 55357)
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
16/03/11 18:46:17 WARN PTBLexer: Untokenizable: ? (U+D83C, decimal: 55356)
Adding annotator tokenize
Adding annotator ssplit
Adding annotator parse
Adding annotator sentiment
16/03/11 18:46:17 WARN PTBLexer: Untokenizable: ? (U+D83D, decimal: 55357)
16/03/11 18:46:18 INFO MemoryStore: ensureFreeSpace(18940) called with curMem=2154857, maxMem=1020914565
RT @ufc: UFC employees get a sneak preview of #EASPORTSUFC2! Check out all the action on Snapchat!  UFCglobal   https://t.co/bKarPEnuFp        sentiment : negative
16/03/11 18:46:18 INFO MemoryStore: Block input-0-1457743577800 stored as bytes in memory (estimated size 18.5 KB, free 971.5 MB)
16/03/11 18:46:18 INFO BlockManagerInfo: Added input-0-1457743577800 in memory on localhost:64528 (size: 18.5 KB, free: 971.6 MB)
16/03/11 18:46:18 WARN BlockManager: Block input-0-1457743577800 replicated to only 0 peer(s) instead of 1 peers
16/03/11 18:46:18 INFO BlockGenerator: Pushed block input-0-1457743577800
Adding annotator tokenize
Adding annotator ssplit
```

Terminal 4: Run 6: TODO

All files are up-to-date (10 minutes ago)   3048:1 CRLF UTF-8

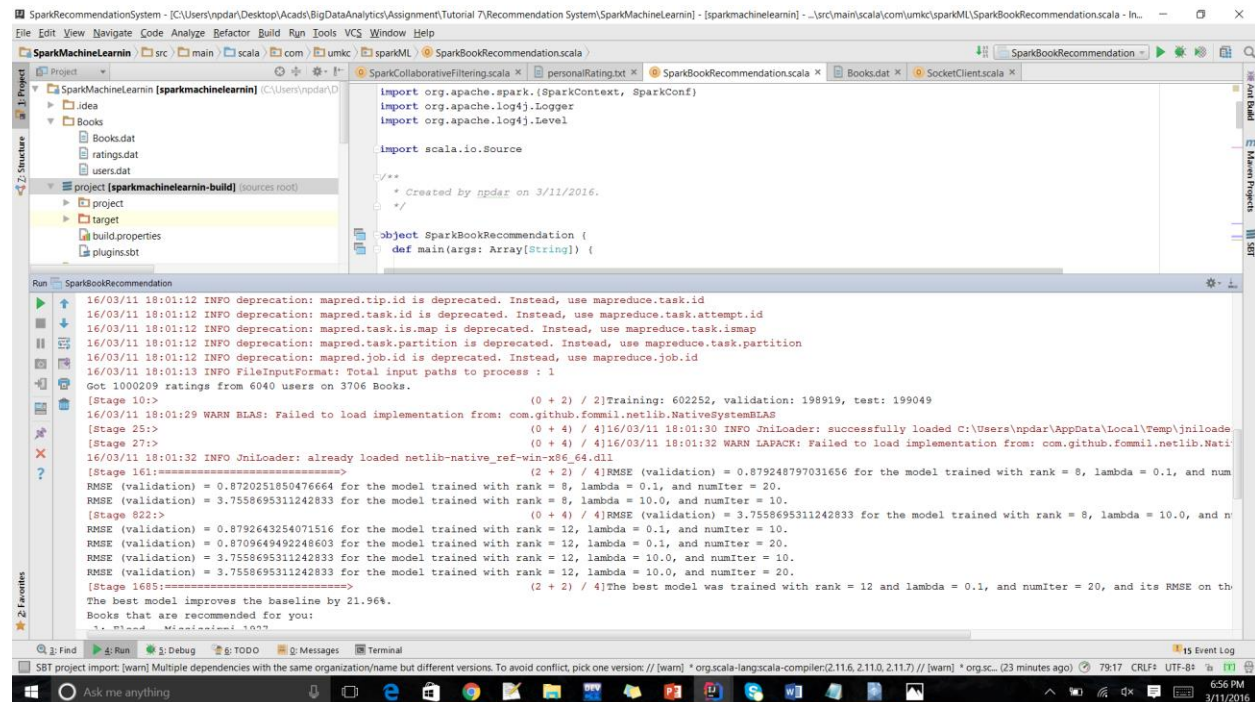Ask me anything   6:55 PM 3/11/2016

Question 2:

Recommendation System

In this I am able to provide the details of Books with the user id, ratings etc. My recommendation system will analyze the results based on the training data and will recommend the books.
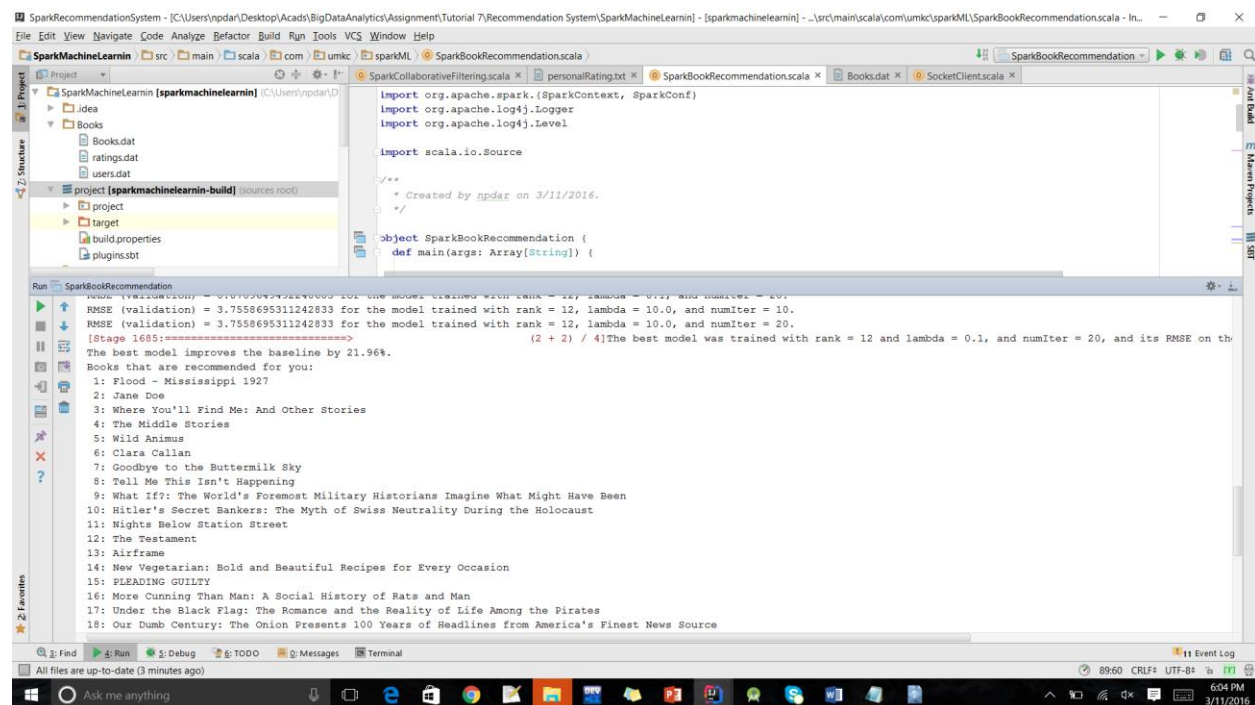
Question 3:

This question is related to the question-1. In this the data collected from the twitter will be analyzed using sentimental analysis and will be sent to any android device such as watch/ mobile in the form of notification.

1:09 PM

Friday, Mar 11, 2016

Clear

Lycamobile

~~SiteLocalAddress: 10.205.1.253~~

Twitter Trend notification   1:08 PM
Performing sentiment analysis

USB debugging connected
Touch to disable USB debugging.

Connected as a media device
Touch for other USB options.

74%   1:08 PM

Hello World!

NOTIFY WEARABLE

I'm waiting here: 1234
SiteLocalAddress: 10.205.1.253

Hello World!

NOTIFY WEARABLE

I'm waiting here: 1234
SiteLocalAddress: 10.205.1.253

#1 from /10.151.1.25:52868
TweetWithSentiment [line=RT @CassieLeuffen:
TRUMP: "Clinton, boy is she being nice to Obama,
she agrees w/ him on everything. We can't have
another 4 years.. She's ..., cssClass=sentiment :
negative]replayed: Hello from Android, you are #1
#2 from /10.151.1.25:52869
TweetWithSentiment [line=RT @CassieLeuffen:
TRUMP: "Clinton, boy is she being nice to Obama,
she agrees w/ him on everything. We can't have
another 4 years.. She's ..., cssClass=sentiment :
negative]replayed: Hello from Android, you are #2
#3 from /10.151.1.25:52870
TweetWithSentiment [line=Bernie Sanders wins big
with Michigan Muslims https://t.co/P8SAz7wOBn,
cssClass=sentiment : positive]replayed: Hello from
Android, you are #3
#4 from /10.151.1.25:52871
TweetWithSentiment [line=RT @BonnieMadden: I'm
amazed at the effort the GOP is making against the
people's chosen candidate. Don't let the
establishment win. VOTE T..., cssClass=sentiment :
negative]replayed: Hello from Android, you are #4
#5 from /10.151.1.25:52872
TweetWithSentiment [line=RT @politiCOHEN_: a
roundup of violence toward protestors at trump
events. hint: it's a long roundup. https://t.co/
NS3ilX7Ppf, cssClass=sentiment : negative]replayed:

I'm waiting here: /:::1234
SiteLocalAddress: 10.205.1.253

TweetWithSentiment [line=RT @larrymadill: Ben Carson endorsing Donald Trump is like that moment in Star Wars when Jar Jar Binks nominates Senator Palpatine., cssClass=sentiment : negative]TweetWithSentiment [line=RT @horoscoponegro: #LEO: a veces, crees demasiado en la gente que te rodea, y debes tener cuidado. No todo el mundo que te "admira y halag..., cssClass=sentiment : negative]TweetWithSentiment [line=Oscar frågar sig om man verkligen behöver bygga sin egen backend? Han visar att det finns andra möjligheter. https://t.co/3Vhe6aWmF2, cssClass=sentiment : positive]TweetWithSentiment [line=RT @vdare: The endless triangulation by the Beltway Right is tiresome. Calling Trump a "scam" is pure projection. https://t.co/jFklX6do1F, cssClass=sentiment : negative]TweetWithSentiment [line=RT @WriterUSA: #Ohio leads in jobs lost to Clinton's NAFTA https://t.co/dsvMNTqPu5 #p2 #feelthebern #ohprimary #ohleg #1u https://t.co/6Wz..., cssClass=sentiment : negative]TweetWithSentiment [line=RT @DiarioTalCual: TIENEN LA TAREA ATRASADA. Oscar Figuera: GPP no tiene plan para enfrentar el referéndum https://t.co/6ayB7wwimz https://..., cssClass=sentiment : positive]TweetWithSentiment [line=RT @AreZeroZeroEm: I can definitely respect @RealBenCarson for endorsing @realDonaldTrump for the 2016 presidential election. #MakeAmericaG..., cssClass=sentiment : positive]TweetWithSentiment [line=This hot dog shop is mocking Donald Trump in the best way