

Review Based Recommendation System

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Internal Guide:

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May 7, 2015

Introduction

- Consumer reviews, opinions and shared experiences in the use of a product is a powerful source of information about consumer preferences that can be used in recommender systems.
- Despite the importance and value of such information, there is no comprehensive mechanism that formalizes the opinions selection and retrieval process and the utilization of retrieved opinions due to the difficulty of extracting information from text data.
- In this project we make new recommender system that is built on consumer product reviews is proposed. A prioritizing mechanism is developed for the system. The proposed approach is illustrated using the case study of a recommender system for mobile phones.

Architecture of Proposed System

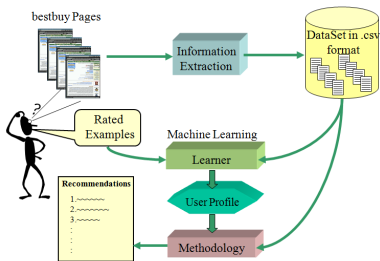


Figure : Architecture of Recommendation System


Data Source

- From <http://www.bestbuy.com/>


Exactly what I was looking for

Customer Rating

★★★★★ 5.0





Posted by [Shorty5486](#) on 04/03/2015

 [mycellar](#) | MEMBER

Exactly what I was looking for in a phone. I couldn't be happier.

I would recommend this to a friend!

0 out of 0 found this review helpful.


Was this review helpful?  0  0 [Flag Review](#)

[Post Comment](#)


Love love love this phone!

Customer Rating

★★★★★ 5.0



Posted by [lalaxxamama](#) from East Stroudsburg, PA on 04/03/2015

 [mycellar](#) | MEMBER

This is my favorite phone by far. It's incredibly easy to use. My favorite features are the huge screen, the pull out stylus, and the s note app. I love being able to write reminder notes and my shopping lists without wasting paper.

I would recommend this to a friend!

Figure : iPhone 6 Review


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- From <http://www.bestbuy.com/>


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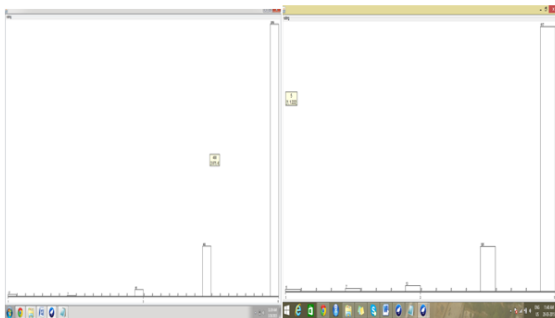
Figure : Samsung Galaxy Note 4 Review

Technology Stack for the Project

- Software Configuration:
 - Data Mining Tool (Weka)
 - R
 - Eclipse (Hadoop)
 - Notepad++
- Hardware Configuration
 - Intel(R) Core(TM) i5-2430M CPU @ 2.40Ghz
 - RAM 8.00 GB
 - OS 64 bit
- Methodology
 - Clustering
 - Text Mining
 - Map Reduce Programming

Result of Clustering In Weka Tool

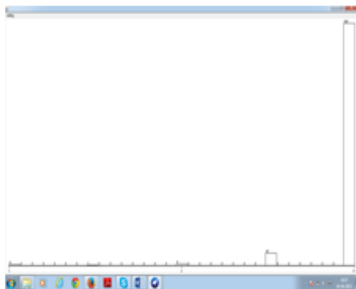
- Comparison between iPhone 6 and Samsung Galaxy Note 4



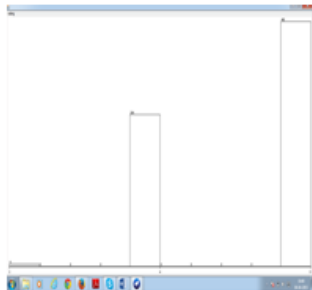
Rating of Iphone 6

Rating of Samsung Galaxy Note 4

- Colour wise comparison of iPhone 6



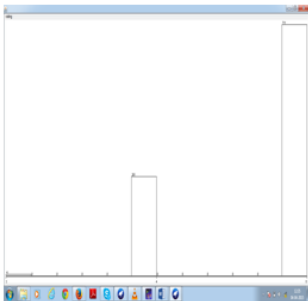
Rating of Gold



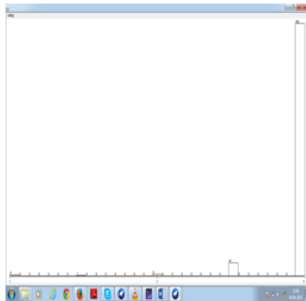
Rating of Silver



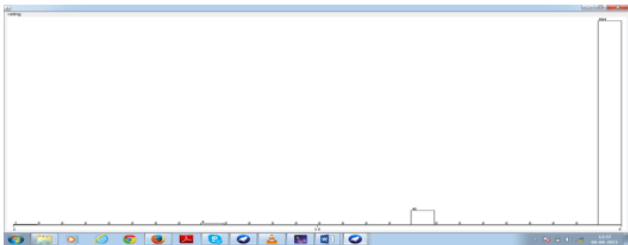
- Service Provide Wise Comparison of iPhone 6



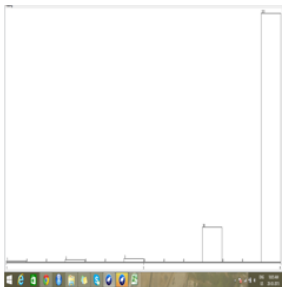
AT & T



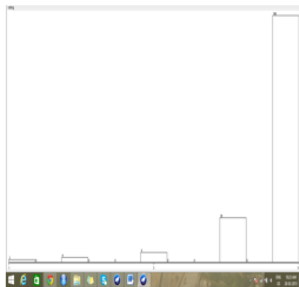
Sprint



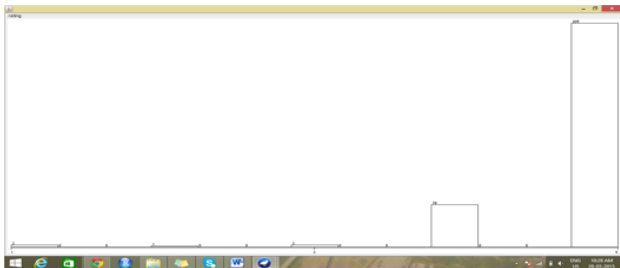
- Service Provide Wise Comparison of Samsung Galaxy Note 4



Version Wireless

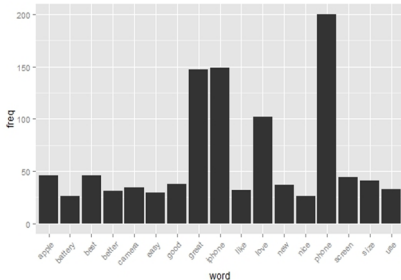


AT & T



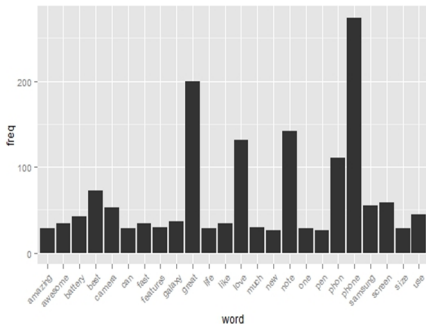
Result of Text Mining in R

- Features Extraction From iPhone 6 Review



Result of Text Mining in R

- Features Extraction From Samsung Galaxy Note 4 Review



Result of Map-Reduce Programming

- Clustering iPhone 6 and Samsung Galaxy Note 4 Review into Negative and Positive Review

File: /home/shree/hadoop/workspace/TextOutput-Iphone/part-r-00000

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Cluster Negative	5
Cluster Positive	172

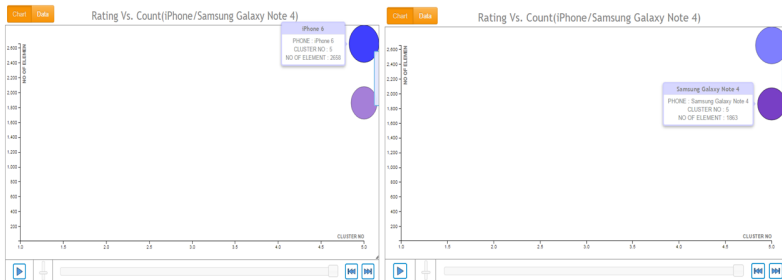
File: /home/shree/hadoop/workspace/TextOutput-Samsung/part-r-00000

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Cluster Negative	5
Cluster Positive	165

Visulization of iPhone 6 and Samsung Galaxy Note 4

- Visulization of iPhone 6 and Samsung Galaxy Note 4 Rating



Visulization of iPhone 6 and Samsung Galaxy Note 4

- Visualization of iPhone 6 and Samsung Galaxy Note 4 Feature Extraction

