

Sentiment Analysis on Social Media Data

Sentiment Analysis on Social Media Data

Sheeba Patel Pranjali Patil Snehal Patil Swati Thorat 1

Guided by:- Prof. Mr. D. D. Puri

September 28, 2016

 $^{^{}m 1}$ SSBT's College of Engineering And Technology, Bambhori Jalgaon - 425001, Maharashtra, India



Outline of Topics

Sentiment Analysis on Social Media Data

Outline

Introduction

2 User Aspect

3 Literature Survey

4 Architecture Of Proposed System

5 UML Diagrams

6 Software Requirements

Application

8 Conclusion



Sentiment Analysis on Social Media Data

Introduction

1 Introduction



Introduction

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pat Snehal Pati Swati Thora

Outline

Introduction

User Aspec

Literature Survey

Architecture Of Proposed System

UML Diagrams

Softwar Require

A 11 ...

Applicatio

- The proposed system contains the Sentiment analysis on Social Media Data.
- Comments are taken from the user and sentiment analysis done.
- For the comments polarity is given i.e. positive, negative and neutral.
- By using sentiment analysis of review we come to know whether the user is satisfied or not.



Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pate Swati Thora

Outlin

Introductio

User Aspect

Literature Survey

Architecture Of Proposed System

UML Diagrams

Requireme

Diagrams

1 Introduction

2 User Aspect

3 Literature Survey

4 Architecture Of Proposed System

5 UML Diagrams

6 Software Requirements

7 Application

8 Conclusion



User Aspect

Sentiment Analysis on Social Media Data

Sheeba Pat Pranjali Pat Snehal Pat

Outline

Introduction

User Aspect

Literature

Architecture Of Proposed System

UML Diagrams

Software Requirement

Application

- Give Comments.
- View Comments Polarity.



Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pate Swati Thora

Outlin

Introductio

User Aspec

Literature Survey

Architecture Of Proposed System

UML Diagrams

Requireme

Application

1 Introduction

2 User Aspect

3 Literature Survey

4 Architecture Of Proposed System

5 UML Diagrams

6 Software Requirements

7 Application

8 Conclusion

- 4 □ ト 4 圖 ト 4 圖 ト 4 圖 - り Q (C)



Peter D. Turney, [2002]

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pate Swati Thora

Outline

Introductio

User Aspec

Literature Survey

Architecture Of Proposed System

UML Diagram

Software

. . . .

Applicatio

Thumbs Up or Thumbs Down? Semantic Orientation Applied to Unsupervised Classification of Reviews

predicts review by the average semantic orientation of a phrase that contains adjective and adverb thus calculating whether the phrase is positive or negative with the use of unsupervised learning algorithm which classifies it as thumbs up or thumbs down review



Y.Luo et. al., [2011]

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pate Swati Thora

Outline

Introductio

User Aspec

Literature Survey

Architecture Of Proposed System

UML Diagrams

Softwar

Amaliantia

Applicatio

Product Review Information Extraction Based on Adjective Opinion Words

 uses a comparison between positive and negative sentences. It extracts information from the Web and manually label the word set which requires a lot of unnecessary effort.



B.Agarwal et.al., [2013]

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pati Swati Thora

Outline

Introductio

User Aspec

Literature Survey

Architecture Of Proposed System

UML Diagram

Requirer

. . . .

Applicatio

Sentiment Classification of Review Documents using Phrase Patterns

applied phrase pattern method for sentiment classification.
 It uses part of speech based rules and dependency relation for extracting contextual and syntactic information from the document.



H.Prendinger et.al.,[2011]

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pati Swati Thora

Outline

Introductio

User Aspec

Literature Survey

Architecture Of Proposed System

UML Diagrams

Requirement

Applicatio

SentiFul: A Lexicon for Sentiment Analysis

 Shows that the image representations from the CNN trained on a large-scale dataset could be efficiently transferred for sentiment analysis



Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pate Snehal Pati Swati Thora

Outlin

Introductio

User Aspec

Literature

Architecture Of Proposed System

UML Diagrams

Requiremen

Application

1 Introduction

2 User Aspect

3 Literature Survey

4 Architecture Of Proposed System

5 UML Diagrams

6 Software Requirements

7 Application

8 Conclusion

→□▶ →□▶ → ■ ● りへ○



Architecture

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pat Snehal Pati Swati Thora

Outline

Introduction

User Aspec

Literature

Architecture Of Proposed System

UML Diagrams

Software Requirement

Applicatio

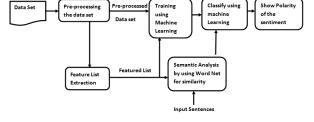


Figure: Architecture Of Proposed System



System Flow Aspect

Sentiment Analysis on Social Media Data

Pranjali Par Snehal Pat Swati Thor

Outline

Introductio

User Aspec

Architecture Of Proposed

Of Propose System

UML Diagrams

Requirement

Applicatio

- Pre-processing data
- Feature Extraction
- Training and classification



Sentiment Analysis on Social Media Data

UML Diagrams

5 UML Diagrams



Use Case Diagram

Sentiment Analysis on Social Media Data

Pranjali Pat Snehal Pati Swati Thora

Outline

minoductio

User Aspec

Architectur

Of Proposed System

UML Diagrams

Requirement

Applicatio

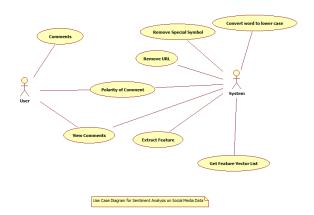


Figure: Use Case Diagram



Sequence Diagram

Sentiment Analysis on Social Media Data

Pranjali Pat Snehal Pat Swati Thora

Outline

Introducti

User Aspec

Literature

Architecture Of Proposed

UML Diagrams

Software Requirement

Database : System 1: give comments() 2 : store comment in database() 3 : analyse the comment() 4 : store the polarity() 5 : show the polarity()

Sequence Diagram for Sentiment Analysis on Social Media Data

Figure: Sequence Diagram



State Diagram

Sentiment Analysis on Social Media Data

Pranjali Pat Snehal Pati Swati Thora

Outline

Introductio

User Aspec

Literature

Architecture Of Proposed System

UML Diagrams

Software Requirement

Applicatio

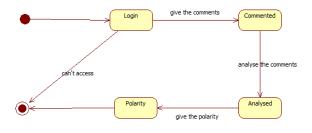


Figure: State Diagram

State Transition Diagram for Sentiment Analysis on Social Media Data



Activity Diagram

Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pat Snehal Pati Swati Thora

Outline

Introducti

User Aspec

Literature

Architecture Of Proposed System

UML Diagrams

Software Requirements

Applicatio

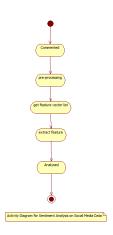


Figure: Activity Diagram



Class Diagram

Sentiment Analysis on Social Media Data

Pranjali Pat Snehal Pati Swati Thora

Outline

Introduction

User Asped

Litaratura

Architecture Of Proposed

UML Diagrams

Requiremen

Applicatio

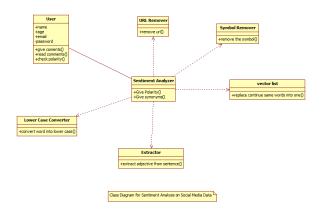


Figure: Class Diagram



Component Diagram

Sentiment Analysis on Social Media Data

UML Diagrams

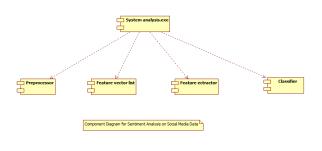


Figure: Component Diagram



Sentiment Analysis on Social Media Data

Software Requirements

6 Software Requirements



Software Requirements

Sentiment Analysis on Social Media Data

Sheeba Pat Pranjali Pat Snehal Pat Swati Thora

Outline

Introductio

User Aspec

Architecture
Of Proposed

UML Diagrams

Software Requirements Technology Used:-

- Front end:-
 - R language for representation.
- Backend:-
 - Java
- Tools Used:-
 - R Studio



Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pat Snehal Pati Swati Thora

Outlin

Introductio

User Aspec

Literature

Architecture Of Proposed System

UML Diagrams

Application

1 Introduction

2 User Aspect

3 Literature Survey

4 Architecture Of Proposed System

5 UML Diagrams

6 Software Requirements

7 Application

8 Conclusion



Application

Sentiment Analysis on Social Media Data

Pranjali Pati Snehal Pati Swati Thora

Outline

Introductio

User Aspec

Literature

Architecture Of Proposed System

UML Diagrams

Requirement

Application

- Product and Service reviews
- Reputation Monitoring
- Result prediction
- Decision making



Sentiment Analysis on Social Media Data

8 Conclusion



Conclusion

Sentiment Analysis on Social Media Data

Pranjali Pa Snehal Pat Swati Thor

Outline

Introductio

User Aspec

Literature

Architecture Of Proposed

UML Diagrams

Software Requirement

Applicatio

Upto the work which is done by which it is concluded that implementation of the proposed system can be done.



Bibliography

Sentiment Analysis on Social Media Data

1 Geetika Gautam, Divakar yadav," Sentiment Analysis of Twitter Data Using Machine Learning Approaches and Semantic Analysis".

- 2 B.Ren, L.Cheng, Research of Classification System based on Naive Bayes and MetaClass, Second International Conference on Information and Computing Science, ICIC 09, Vol(3), pp. 154 156, 2009.
- 3 Y. Singh, P. K. Bhatia, and O.P. Sangwan, A Review of Studies on Machine Learning Techniques, International Journal of Computer Science and Security, Volume (1): Issue (1), pp. 70-84, 2007.
- 4 B.Agarwal, V.K.Sharma, and N.Mittal, Sentiment Classification of Review Documents using Phrase Patterns, International Conference on Advances in Computing, Communications and Informatics (ICACCI), pp.



Sentiment Analysis on Social Media Data

Sheeba Pate Pranjali Pati Snehal Patil Swati Thorat

Outline

ntroductio

User Aspec

Osci Alspec

Architectur

UML

Software Requirements

Application

Thank You...