

## Unit 14 - Week 12

## Course outline

## How to access the portal

## Week 0 : Assignment 0

## Week 1

## Week 2

## Week 3

## Week 4

## Week 5

## Week 6

## Week 7

## Week 8

## Week 9

## Week 10

## Week 11

## Week 12

- Lecture 57 : Sentiment Analysis - Introduction
- Lecture 58 : Sentiment Analysis - Affective Lexicons
- Lecture 59 : Learning Affective Lexicons
- Lecture 60 : Computing with Affective Lexicons
- Lecture 61 : Aspect - Based Sentiment Analysis
- Week 12 lecture material

 Quiz : Assignment 12 Feedback for Week 12

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## Solutions

## Assignment 12

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

Due on 2019-10-23, 23:59 IST.

- 1) Which of the following Affective States does Sentiment Analysis mostly focus on? 1 point
1. Mood.
  2. Personality Traits.
  3. Attitudes.
  4. Emotion.
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
3.
- 2) Using SentiWordNet 3.0, find out the no. of Synsets in which the word “unable” belongs to. Also, find out the positivity, negativity and objectivity scores for unable (a,3), where “a” represents “adjective”, i.e. the POS tag of the word. 1 point
1. No. of Synsets: 4, PosScore: 0.125, NegScore: 0.25, ObjScore: 0.625
  2. No. of Synsets: 3, PosScore: 0.125, NegScore: 0.25, ObjScore: 0.625
  3. No. of Synsets: 3, PosScore: 0, NegScore: 0.375, ObjScore: 0.625
  4. No. of Synsets: 3, PosScore: 0, NegScore: 0.75, ObjScore: 0.25
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
2.
- 3) Which of the following are indicators of Irrealis moods? 1 point
1. Words enclosed in quotes.
  2. Conditional markers such as “if”.
  3. Questions.
  4. All of the above
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
4.
- 4) Sentiment lexicons can be learned using intuitions such as: 1 point
1. Same polarity words are connected by “and”
  2. Opposite polarity words are connected by “but”
  3. Both (1) and (2)
  4. None of the above
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
3.
- 5) Which metric was employed by Turney Algorithm to measure co-occurrence? 1 point
1. Pointwise Mutual Information
  2. Jaccard Coefficient
  3. Jensen-Shannon Divergence
  4. Dice coefficient
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
1.
- 6) Let  $P(w|c)$  represent the probability of a word given its rating. Further, let  $P(w)$  represent the probability of the word in the overall corpus. While analyzing the polarity of a word in a given corpus, what is the intuition behind dividing  $P(w|c)$  by  $P(w)$ ? 1 point
1. To make it comparable across different ratings.
  2. To make it comparable across different words.
  3. Both (1) and (2).
  4. None of the above.
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
2.
- 7) Polarity shift technique is performed to handle: 1 point
1. False positives
  2. Normalisation problems.
  3. Negations
  4. None of the above
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
3.
- 8) What is the category of the intensifier “really”? Let the word “bad” have a sentiment score of -2. What is the score for the phrase “really bad”? 1 point
1. Amplifier, -2.3
  2. Downtoner, +2.3
  3. Amplifier, -2.1
  4. Downtoner, +2.1
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
1.
- 9) Some of the problems associated with Aspect Based Sentiment Analysis are: 1 point
1. Association of corresponding sentiments to aspects in a multi-aspect review.
  2. Identification of Implicit aspects.
  3. Same opinion phrases having different sentiments for different aspects.
  4. All of the above
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
4.
- 10) Consider the sentence: “The touch screen was cool; however, the voice quality and battery were very poor”. Which of the following are true? 1 point
1. Aspect: “touch screen”, Sentiment: Positive, Opinion Phrase: “cool”.
  2. Aspect: “voice quality”, Sentiment: Negative, Opinion Phrase: “very poor”.
  3. Aspect: “battery”, Sentiment: Negative, Opinion Phrase: “very poor”.
  4. Only (1) and (3)
1.  
 2.  
 3.  
 4.
- No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
1.  
2.  
3.