Bilkent University, Computer Engineering Department, Fall 2017
CS533: Information Retrieval Systems
Assignment: Tweet Annotations

Assignment Date: 10.11.2017 - Due Date: 21.11.2017, till 23:59

1. Background
Twitter is a social-media platform where people share their opinions with limited text segments, called **tweets**.

Tweets reflect emotional state of users, called **sentiment**. Sentiment can be in multiple forms. In this assignment, we have positive, neutral, negative, and sarcastic sentiments. Sarcastic tweets actually mean the opposite of what it seems to say. Examples for each type of sentiment are as follows.

Positive sentiment: "Gururumuz Aziz Sancar tebrikler"

Neutral sentiment: "Kitap okurları fuar kapsamında Kadıköy'de buluştu"

Negative sentiment: "Yastayız üzgünüz teröre lanet olsun"

Sarcastic sentiment: "Bizim kalecinin en büyük başarısı kendi kalesine gol atmamış olmasıydı"

A news article is defined as **relevant to the tweet**, if the tweet content is about the news article. Note that having similar words with the news article does not mean that the tweet is always related to it. For instance, the news article titled "Aziz Sancar Nobel Ödülü Kazandı" is not related to the tweet "Lezzetli yemek yapma alanında nobel ödülü kazanmalıyım".

2. Tasks
In this assignment, you are required to complete total of 10 tasks. In each task, you will see 100 tweets. For each tweet, you read its content and then;

(i)   label the sentiment of tweet in terms of positive, neutral, negative, and sarcastic,

(ii)   select a news article that is related to the tweet. If none of news articles is related to the tweet, select the last choice that says "none is related".

3. Details of the Annotation Program
You   are   going   to   complete   all   tasks   via   a   web-page, **numeric.cs.bilkent.edu.tr/filtering_annotations**

If you would like to connect from outside of campus, you must have Bilkent VPN .

3.1 Login Screen
Each annotator has a username and password to login. Username and passwords will be sent to your e-mail.

3.2 Tasks Screen

In this screen, you have 10 tasks to complete. Each task has 100 tweets.

Annotation status is given as "finished" or "waiting". There is a status bar that shows the percentage of how many tweets in task are labeled. Start and end of annotation process are also given. Note that you can always quit your annotation safely, that is, your annotations will be saved. You can also change your "finished" task whenever you want. Figure 1 displays a sample tasks screen.
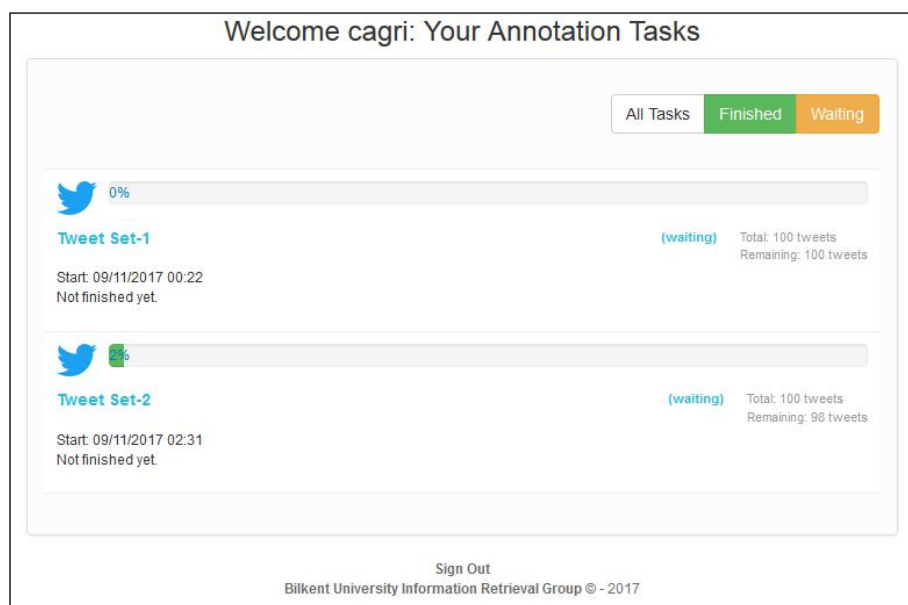

Figure 1. A sample tasks screen.

3.3 Annotation Screen

A sample annotation screen is given in Figure 2. This window consists of three sub-panels:

(i)   *Top- panel: Tweet Content*

Tweet content is given as it is, that is, the content is not modified. Not that tweets to be annotated were selected by an algorithm.

You can go to previous tweets in the same task, but **you can not go to the next one until you complete selecting both sentiment and related news article**.

Under the tweet content, you will see "Hide Instructions", which enables you to hide instructions given in this page. Your choice will be saved.

(ii)   *Middle- panel: Tweet Sentiment*

You have to select one of sentiments: Positive, neutral, negative, or sarcastic tweet. You can always change your selection.

(iii)   Bottom- *panel: Relevance to News Article*

You have to select one of seven options by clicking on the tick button at the right-most. The first six options are news articles. The last one is selected if tweet is not related to the first six ones. Note that you will always be asked to select the same set of news articles. You can also view the original content of news article by clicking on the magnifier button.

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RT @12numaraorg: Beşiktaş-Fenerbahçe basketbol maçında İzmir Marşı söyleniyor! Tebrikler Beşiktaş taraftarı! 👏👏👏
#YaşaMustafaKemalPaşaYaşa

Previous

Next

Hide Instructions ☐

Please complete the following two tasks for the above tweet.

1. Label sentiment of the tweet: Positive, neutral, negative, sarcastic.

😊 😐 ☹️ 😏

2. Select the related news for the tweet.
None of the following news may be related to the tweet. If so, select the last item.

⚖️	Spor Toto Süper Lig'de 2014-2015 sezonu şampiyonu Galatasaray oldu	🔍	☑️
⚖️	Dağlıca'da hain saldırı: Şehit ve yaralılar var	🔍	☑️
⚖️	Nobel Kimya Ödülü'nü Türk asıllı Aziz Sancar kazandı	🔍	☑️
⚖️	Alanyaspor Süper Lig'de	🔍	☑️
⚖️	Bolu Milli Eğitim Müdürü Yusuf Cengiz: 10. Yıl Marşı mı kaldı?	🔍	☑️
⚖️	Funda Özkayoncu 'Kürk Mantolu Madonna'yı şarkıcı Madonna sandı	🔍	☑️
⚖️	None of them is related to the tweet	🔍	☑️

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Figure 2. A sample annotation screen.

4. Grading

Your assignment will be finished when status of all tasks become "finished". **Your assignment will be graded based on the reliability of your answers with statistical algorithms.** Please contact *cagritoraman@gmail.com* for any assistance and questions.