**SI 618 Fall 2017 HW 5 – Mturk**

In this homework, we will utilize Amazon Mechanical Turk (Mturk) to collect labels on content gathered through Lab5. Our goal here is to measure civility in news discussions through one specific dimension—personal attacks. Given the widespread

Data: si618\_f17\_lab5\_random\_sample\_100\_comments\_uniquename1\_uniquename2.csv

**Step 1 – Mturk registration**

Each team needs to create an account on MTurk as a requester (<https://requester.mturk.com/>). Note that you need to provide a payment method for the account. You will get reimbursed.

**Step 2 – Set up Mturk task**

Creating an MTurk task requires four high level sub-tasks:

**1.** Enter properties:

Title: choose a title that is representative of the task at hand

Description: Provide a 1-2 sentence description of the task. You can see the html template we shared for the description of the task

Keywords: Use “news discussions, facebook comments, classification”

Reward per payment: $0.1, number of workers per hit: 3, time allotted: 1 hour, hit expires: 7 days, auto-approve: 3 days

Master workers not required

Workers must: (1) have at least 1000 approved HITs, and (2) have at least 98% approval rate.

We are going to create 100 HITS (100 comments \* one comment per HIT).

Total amount of fee:$0.1 per worker \* 3 workers per Hit \* 100 HITS = $30 + $6 (Mturk overhead costs) = **$36**.

Please do not exceed this amount, you will only be reimbursed for that amount.

**2.** Design Layout & Mturk input file preparation

Check out the template code, hw5\_html\_template.html, for insights. Pay attention to instructions provided in comment form (<!-- Instructions: … -->). You need to specify the arguments. If you look at hw5\_example\_input\_data.csv, You will notice your si618\_f17\_lab5\_random\_sample\_100\_comments\_uniquename1\_uniquename2.csv can be used as an input csv file for Mturk without changing anything if your arguments are well-specified.

**3.** Preview and Finish:

This page will show a preview of the task. You can also see the csv file format that your task demands (that can be a clue to you if the template does not match the template csv file we provided).

**4.** Publish batch:

For this step, you will upload the csv file you generated in Lab5. Before you publish you will see the cost (make sure it matches our estimation) and can see some example HITs.

After some time of publishing the batch, you will have workers picking up your HITs. In a relatively short while, your HITs will most likely be completed. But don’t leave this to the last minute. The earlier you do this homework, the earlier you can make sure that the HITs are all completed.

**Step 4 – Cleaning results**

You can check the progress of the batch. You can also look at hw5\_example\_batch\_result.csv as an example. Once you have the result, change the result csv file name to si618\_f17\_hw5\_batch\_result\_uniquename1\_uniquename2.csv.

Create si618\_f17\_hw5\_clean\_uniquename1\_uniquename2.py. You need to transform the result data from HIT-level back to comment-level. Remember each HIT has 3 rows and we have provided 5 different answer choices. The total number of answers for each HIT can be more than three. Count how many each answer choice was selected from three workers for each comment. Save it as si618\_f17\_hw5\_cleaned\_data\_uniquename1\_uniquename2.csv.

Take a look at hw5\_example\_cleaned\_data.csv as a reference. Your cleaned comment-level data should have 101 rows including header. Columns **must** be pagename, post\_id, comment\_id, answer\_1, answer\_2, answer\_3, answer\_4, answer\_5, answer\_6 and in the same order because we are going to merge all data we have and explore them next time.

**Step 5 – Estimating the prevalence of personal attacks**

Now that you have the judgment of workers for each comment, perform the following analysis:

1. Compute agreement between workers: Remember that three workers evaluated each comment. For what fraction of comments do *all three workers* agree whether or not there is some sort of personal attack? This will provide us an indication of how reliable the results are.
2. How often do at least two workers believe there is some sort of a personal attack? Report the fraction.
3. How often does at least one worker believe there is some sort of a personal attack? Report the fraction.

Create si618\_f17\_hw5\_analysis\_uniquename1\_uniquename2.py. You need to create an analysis result file. si618\_f17\_hw5\_analysis\_output\_uniquename1\_uniquename2.txt that has 3 lines, each line providing a number between 0 and 1, corresponding to the three questions above.

**What to submit:**

Submit a zip file named si618\_f17\_hw5\_uniquename1\_uniquename2.zip containing

Mturk result CSV file: si618\_f17\_hw5\_batch\_result\_uniquename1\_uniquename2.csv

Cleaned result CSV file: si618\_f17\_hw5\_cleaned\_data\_uniquename1\_uniquename2.csv

Analysis text file: si618\_f17\_hw5\_analysis\_output\_uniquename1\_uniquename2.txt

2 Python files : si618\_f17\_hw5\_clean\_uniquename1\_uniquename2.py

si618\_f17\_hw5\_analysis\_uniquename1\_uniquename2.py