10/7/2021

# Assignment 6: Natural Language

## The instructions—about this Word file template, the evaluation matrix, no more than 4 pages, and appendices—are as before. We recommend that you start with a rough draft and refine it as you become familiar with the ways in which a NL API can help.

## Purpose

In a one or two sentences, explain the overall purpose of an application (we’ll call it Natlang) that accepts a sentence of natural language input, and outputs one or two sentences in response. Natlang should account for sentiment in the input. Minimize the amount of non-NL work performed by Natlang. It is acceptable if the potential Natlag *outputs* are hard-coded, not created on-the-fly. Part 2 makes this part specific.

Your responses replace this.

## Specifications

In one sentence each as below, specify the requirements (different specific capabilities) for Natlang. Natlang should account for sentiment in the input.

**2.1 Requirement 1**: Your requirement title (5 words or less) replaces this.

Your requirement 1, preferably in one sentence, replaces this.

**2.2 Requirement 2**: Your requirement title (5 words or less) replaces this.

Your requirement 2, preferably in one sentence, replaces this.

**2.3 Requirement 3**: Your requirement title (5 words or less) replaces this.

Your requirement 3, preferably in one sentence, replaces this.

Continue if Natlang has more requirements.

## I/O Instances

Implement Natlang and show 3-6 input/output examples from your execution, as unrelated as possible. Indicate which requirement(s) (1.2, 1.2, or 1.3) are satisfied by each. State what NL API you used, hyperlinked (e.g., [TextRazr](https://www.textrazor.com/)) as below.

3.0 **Natural Language API Used**

I used the *your hyperlinked responses replace this* NL API.

3.1 **I/O Example 1**:

**Tests of Requirement(s)** Your responses replace this (e.g., “1 and 2”).

**Input and Natlang output (screenshot from execution):**

Your responses replace this.

3.2 **I/O Example 2**:

**Tests of Requirement(s)** Your responses replace this (e.g., “1 and 2”).

**Input and Natlang output (screenshot from execution):**

Your screenshot response replaces this.

3.2 **I/O Example 3**:

**Tests of Requirement(s)** Your responses replace this (e.g., “1 and 2”).

**Input and Natlang output (screenshot from execution):**

Your screenshot response replaces this.

Continue with up to 3 more examples in the above form.

## Sentiment Analysis Code

Show and explain the (commented) code pertaining (only) to sentiment analysis.

Your responses replace this.

## Key Code

In a page or less, show and explain key (commented) code for the application other than sentiment analysis.

Your responses replace this.

## Source Code

Include, or point to the complete source code.

Your responses replace this.

# Evaluation

