Lecture 0 Handout: Introduction to NLP Tasks

CSCI 375: Fall 2024 Created by: Katie Keith Instructions _____ The goal of this activity is to introduce you to a few common NLP tasks and build some intuition for how you might program a computer to approach these tasks. For each of the three tasks below: 1. Attempt the example on your own, then 2. Brainstorm how you might program a computer to attempt any example for this task. Task 1: Sentiment Analysis ———— Choose the best category for each example. **Example 1a:** This is a fantastic restaurant. Sentiment is: \square Positive \square Neutral \square Negative **Example 1b:** This restaurant did not impress me. Sentiment is: \square Positive \square Neutral \square Negative Brainstorm how to program a computer that can tackle any example for this task: Task 2: Machine Translation Translate the following examples into a different language of your choice. **Example 2a:** Mary works with John. Translation: **Example 2b:** She runs the company.

Translation:

Brainstorm how to program a computer that can tackle any example for this task:
Task 3: Coreference resolution
For each of the <u>underlined words</u> in the examples below, circle the word it refers to.
Example 3a: The cat sat on the mat because $\underline{\mathbf{it}}$ was tired.
Example 3b: John took a train from Paris to Istanbul. He has family there .
Brainstorm how to program a computer that can tackle any example for this task: