START OF QUIZ
Student ID:
70094511,Ma,Muyuan

Question 1

Topic: Lecture 1
Source: Lecture 1

Describe the Pollyanna principle, and how it complicates sentiment analysis. (1)

Question 2

Topic: Lecture 1
Source: Lecture 1

Explain the intuition behind a polarity axis. Knowing what you know about vector space, how and why does it work? (2)

Question 3

One of the goals of embeddings is that similar words are close to each other, and unrelated words are far apart. If we are using embeddings in our sentiment analysis toolkit, explain why we can't just "flip the polarity" of words modified by a negator (ie, [0.1, 0.3, 0.5] -> [-0.1, -0.3, -0.5]) (2)

Question 4

Topic: Lecture 4
Source: Lecture 4

Explain the purpose of pooling. (1)

Question 5

Sarcasm and irony are very difficult to detect with sentiment analysis methods. Outside of machine learning methods that consider larger contexts, do you think there is any way of detecting them with purely lexical (ie, word-based) resources? Briefly explain. (2)

Question 6

Topic: Lecture 3
Source: Lecture 3

Identify the target of the following sentence. Paul Giamatti's performace was a highlight of The Holdovers. (1)

Question 7

What is the goal of multi-task learning? (1)

Question 8

Topic: Lecture 3
Source: Lecture 3

Why is a dependency parser a key tool in the sentiment-analyst's toolkit? (1)

Question 9

Topic: Long
Source: Lecture 1

Imagine that we come across a lexicon of words written in a mysterious language, and we are trying to determine their purpose. What are some ways that we could determine that they are a polarity lexicon, and how might we be able to test our hypothesis? Since this is a mysterious language, we don't know anyone (or any tools) that speak it. (3)

END OF QUIZ