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Question 1

Topic: Lecture 4
Source: Lecture 4

Describe the propagation of error, and how it relates to neural architectures. (1)

Question 2

Topic: Lecture 4
Source: Lecture 4

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

Question 3

Topic: Lecture 2
Source: Lecture 2

In class, we talked about how repeated use of words is not cumulative (ie, using good 5 times is not 5 times as positive as using it once). Briefly explain why this is the case. (1)

Question 4

Topic: Lecture 1
Source: Lecture 1

Explain why it's harder to rank polarity for words than simply categorizing them as ”positive”, ”negative”, or ”neutral”. (2)

Question 5

Topic: Lecture 2
Source: Lecture 2

We know that most sentiment words are adjectives, and many intensifiers and shifters are adverbs. Given a list of polar words, what tools could we use to discover intensifiers (beyond POS taggers and regexes)? Briefly explain. (1)

Question 6

Topic: Lecture 3
Source: Lecture 3

Is the following a direct subjective element or an expressive subjective element? [Example given - to study, just be aware of the key differences between the two] (1)

Question 7

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 8

Topic: Lecture 3
Source: Lecture 3

Outside the examples given in class, provide 3 words that could be positive or negative potential items in different circumstances. Briefly explain. (2)

Question 9

Topic: Long
Source: Lecture 3

In class, we've discussed ways of obtaining and expanding polarity lexicons, but we didn't talk about how to identify PPIs / NPIs. Write out pseudocode (ie, codish-looking stuff) that dives through a corpus of sentiment annotated documents across multiple domains, and identifies ”potential potential items”. If you make any assumptions about the data, be sure to list them. Don't actually write the code - this should be a designed algorithm, not a runnable piece of code. (3)

END OF QUIZ