

**START OF QUIZ**

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## Question 1

Topic: Lecture 6

Source: Lecture 6

What is distant supervision, and why can we apply it to social media? (1)

## Question 2

Topic: Lecture 8

Source: Lecture 8

What is one similarity and one dissimilarity between emojis and emoticons? (1)

### Question 3

Topic: Lecture 8

Source: Lecture 8

What is code-switching, and why is it a problem for NLP? (1)

## Question 4

Topic: Lecture 5

Source: Lecture 5

In class, we said that “fake” fake reviews are often too prototypical when they are generated by hand. Given the tools you’re familiar with, how do you think we could generate fake reviews automatically? Do you think they would suffer from the same problem? (2)

## Question 5

Topic: Lecture 6

Source: Lecture 6

Which of the following Tweets is most likely to be sarcastic? Give a brief explanation of why. A. That sounds like a really great idea! #Awesome! B. That sounds like a reeeeeeeally great idea! C. That sounds like a really great idea! ( \_ ) D. That sounds like a really great idea! :+1: (2)

## Question 6

Topic: Lecture 5

Source: Lecture 5

SVM ranking takes advantage of the fact that an ordinal problem can be transformed into a binary “larger than” problem by simple subtraction of feature vectors. It’s typically done with a linear SVM. Do you think we could apply a similar trick with a neural model? Why or why not? (2)

## Question 7

Topic: Lecture 7

Source: Lecture 7

Imagine that we had a strange representation of the date: “Year 23 in the 21st century on the 3rd day of March, at 11 minutes past 17”. Using `strptime`, what is the format that we would need to provide to recognize this time? (1)



## Question 8

Topic: Lecture 7

Source: Lecture 7

What information about a user/document is required in order to include it in a choropleth (2 items)? (1)

## Question 9

Topic: Coding

Source: Lecture 5

A: Feature vector = (2,1); rating = 1 B: Feature vector = (0, 4); rating = 3 C: Feature vector = (3,3); rating = 4 (3). If we are doing SVM-based ranking, give at least one feature vector that can be used as a positive example for our binary SVM classifier, and one feature vector that can be used as a negative example. Secondly, if the weight vector of our trained SVM classifier is (-2, 4), what is Kendall's Tau for the resulting ordinal classification of these 3 documents?

**END OF QUIZ**