

**START OF QUIZ**

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## Question 1

Topic: Lecture 6

Source: Lecture 6

Based on the Swartz et al (2013) study of personality on social media, give an example of how emotion classification intersects with the identification of personality traits. (1)

## Question 2

Topic: Lecture 7

Source: Lecture 7

We talked about time and place as completely separate ideas - do you think there would be any benefit to tracking choropleths over time? Briefly explain. (1)

### Question 3

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 4

Topic: Lecture 6

Source: Lecture 6

How does modeling author personality help in the detection of sentiment (think about how it might help us determine sarcasm or interpret reviews). (2)

## Question 5

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 6

Topic: Lecture 7

Source: Lecture 7

Times in Python datetime do not necessarily correspond to a particular, unique moment in time (e.g. the exact moment someone was born). What needs to be true of them in order for them to represent a specific moment in time? (1)

## Question 7

Topic: Lecture 8

Source: Lecture 8

Suggest one way that normalization of non-standard social data can help sentiment analysis, and one that can hurt it. (1)



## Question 8

Topic: Lecture 8

Source: Lecture 8

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

## Question 9

Topic: Coding

Source: Lecture 6

Imagine a detective approaches you as a data analyst and says that they have been receiving letters purporting to be from a serial killer. The detective is worried that some of the letters might be copycats. What are some tests (at least 3) that you can run to try to determine if the letters were written by the same person? (3)

**END OF QUIZ**