

Q7

Due Nov 17 at 11:59pm

Points 1

Questions 10

Available after Nov 13 at 11:59pm

Time Limit 20 Minutes

Instructions

This quiz covers material from: **week 7**

Reminders:

- There are 10 questions.
- You have only one attempt.
- You have 20 minutes.
- This lecture quiz is due on Thursday, November 17 at 11:59PM PST.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	16 minutes	1 out of 1

⚠️ Correct answers are hidden.

Score for this quiz: **1** out of 1
Submitted Nov 17 at 8:29pm
This attempt took 16 minutes.

Question 1

0.1 / 0.1 pts

In the lyrics/pop music example from Lecture, TF-IDF was used to demonstrate...

Which words were most unique to a given year, relative to other years.

That 'yeah' is not used frequently in pop music.

- ☐ That lexical density hasn't changed much in the past four years.
- ☐ That 'expletive' is the most common word in pop music.

Question 2**0.1 / 0.1 pts**

[True/False]: Artificial Intelligence (AI) is a subset within the larger field of machine learning.

- ☐ True
- ☒ False

Question 3**0.1 / 0.1 pts**

True/False: Linear regression is used for both inference and machine learning.

- ☒ True
- ☐ False

Question 4**0.1 / 0.1 pts**

Select all options that are part of the general steps to classic machine learning.

☒ Feature selection☒ Model selection☐ Data reification☒ Model assessment

Question 5

0.1 / 0.1 pts

What is the definition of Supervised Learning?



Algorithm where computer is given the true labels for the training dataset and you tell the computer which features to use to classify the dataset.



Algorithm where computer is not given the original labels and has to classify the data based only on the properties of the dataset and nothing else.

Question 6

0.1 / 0.1 pts

Term frequency is the tf part of tf-idf. term frequency is calculated as ...



The inverse of the word period.



The number of times a word appears in a document.



The number of times a word appears in a document, divided by the number of words in the document.



The number of times a word appears all documents.

Question 7

0.1 / 0.1 pts

Inverse document frequency is the idf part of tf-idf. inverse document frequency is calculated as...



$\ln(\text{number of documents containing the term})$.



$\ln(\text{number of documents in the corpus})$.



$\ln(\text{number of documents in the corpus} / \text{number of documents containing the term})$.



$\ln(\text{number of documents containing the term} / \text{number of documents in the corpus})$.

Question 8

0.1 / 0.1 pts

Because idf has a logarithmic nature...



Having all documents contain a term makes its idf infinity.



Having very few documents contain a term makes idf larger (but it grows slower than the ratio inside the log).



Having very few documents contain a term makes idf smaller.



Having all documents contain a term makes its idf zero.

Question 9

0.1 / 0.1 pts

In class, we discussed which of the following as general approaches to Sentiment Analysis?



Location-based



Machine Learning-based



Lexicon-based

Question 10

0.1 / 0.1 pts

When is the Final Project due?



January 1st



December 9th

Quiz Score: **1** out of 1