Grade 80%

received 80%

To pass 70% or higher

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 What is the main benefit of visualizing the course titles in a word cloud? The word cloud provides a quick visualization of the popular learning topics across all the courses. The word cloud displays tallies for the most frequently used words in all of the course titles. The word cloud provides deeper insight into similarity among course titles than does a histogram or bar chart. The word cloud can be displayed to the user to allow them to select from the most popular courses. Correct Correct Correct A word cloud allows us to visually inspect popular learning topics among all courses. 	1/1 point
 2. In the Exploratory Data Analysis lab, how can we find the course enrollment counts for each user using Pandas dataframe? Use the groupby() on the user column and use the size() method to count the courses for each user. Use the groupby() method on the rating column then use the slice() method on the user column. Use the groupby() method on the user column then use the slice() method on the rating column. Correct Correct. Apply Pandas' groupby() and size() method on the user column to aggregate the rating count for each user, then report the total number of users after aggregation. 	
 a. In the Exploratory Data Analysis lab, why do we need to plot a histogram that shows the number of how many courses users are enrolled in (i.e user enrollment)? To identify when students enrolled in a particular course To illustrate the distribution of course enrollment To identify the number of students enrolled in each course To illustrate the top-20 most popular courses Correct Correct Correct. A histogram allows us to see the distribution of course enrollment across all users. 	1/1 point
 4. In the Exploratory Data Analysis lab, which percentage range do the 20 highest rated courses fall into when compared to the total number of ratings? 0%-24% 50%-74% 75%-100% 25%-49% 	0 / 1 point
 Incorrect Incorrect. Review the Exploratory Data Analysis lab. Which of the following best describes a "Bag of Words" (BoW) feature? An array containing the frequency that words appear in a course's title and description A random sample of words from the course titles and descriptions An indexed token dictionary The distribution of the most frequently used words from all course titles and descriptions Correct 	1/1 point
Correct. In general, BoW features are essentially the counts or frequencies of each word that appears in a list of words. 6. In the Extract BoW Features lab, what does the stopwords.words() method do? Commonly used but unimportant words from a Bag of Words Retrieves a list of commonly used but unimportant words Retrieves a list of commonly used but unimportant words Allows you to enter a list of commonly used but unimportant words into a dictionary	1/1point
Correct Correct. The stopwords.words() method returns a list of commonly used but unimportant words. 7. In the Extract BoW Features lab, what does the method tokens_dict.doc2bow() do? Creates a token dictionary Generates a Bag of Words feature given a course's title and description Generates a Bag of Words feature from a tokenized list Counts the number of nouns in a Bag of Words	1/1 point
 Correct Correct. The method tokens_dict.doc2bow() generates a Bag of Words feature vector from a tokenized course. 8. Which of the following could NOT be a cosine similarity measurement? 1 0.25 0 -0.25 0 -0.25 	1/1 point
 Correct Correct. Cosine similarity measurements cannot be negative. Which format of the Bag of Words feature can be used directly to compute the cosine similarity? Horizontal/sparse Set A Dense/vertical Dictionary 	0 / 1 point
Incorrect Incorrect. Review the Calculate Course Similarity lab. 10. When comparing two course's Bag of Words features you find the cosine similarity to be 0.72. Which of the following is a true statement about this measurement? The two courses can be considered relatively similar to each other. The two courses have less than 28% of their Bag of Words features in common.	1/1 point

O The two courses have exactly 72% of their words Bag of Words features in common.

Correct. The closer the cosine similarity is to 1, the more similar the courses are to each other.

O The two courses are not very similar to each other.

⊘ Correct