

Graded Advanced Features II Quiz

Quiz, 6 questions

1
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1.

Imagine that we apply $X = \text{PCA}(n_components=5).fit_transform(data)$ and data has shape (5000, 53). What is the shape of X?

- ☐ (5, 53)
 - ☒ (5000, 5)
 - ☐ (5, 5000)
 - ☐ (53, 5)
-

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2.

To which data NMF is NOT applicable?

- ☐ Bag-of-words matrix
 - ☒ Standartized matrix
 - ☐ One-Hot encoded feature
-

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3.

Suppose we have 2 categorical features: **f1** with A possible values and **f2** with B possible values. How many values will their interaction have?

- ☐ Exactly $A + B$
 - ☐ Exactly $A * B$
-

Less or equal to $A * B$
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4.

Imagine we have 2 categorical features represented as integers: **f1** with all values in range [0, 1000] and **f2** with values in range [0, 100]. What is the correct way to build their interaction?

- ☐ `f1 + f2`
- ☐ `f1.astype(str) + f2.astype(str)`
- ☒ `f1.astype(str) + "_" + f2.astype(str)`
- ☐ `(f1 + f2).astype(str)`

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5.

What is a correct way to get t-SNE projection of train and test data?

- ☐ Apply t-SNE to the train and after that to the test.
- ☐ Apply t-SNE to the test first and after to train.
- ☒ Apply t-SNE to concatenation of train and test and split projection back.
- ☐ Doesn't matter, all variants will produce the same result.

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6.

Is it possible to do t-SNE projection into 20-dimensional space?

- ☒ Yes, why not.
- ☐ No, only 2-dim or 3-dim projections are possible.



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