QUIZ • 12 MIN

Graded Advanced Features II Quiz

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TOTAL POINTS 6

1. **Imagine that we apply X = PCA(n_components=5).fit_transform(data) and data has shape (5000, 53). What is the shape of X?** 1 point
   - (5, 53)
   - (5000, 5)
   - (5, 5000)
   - (53, 5)

2. **To which data NMF is NOT applicable?** 1 point
   - Bag-of-words matrix
   - Standartized matrix
   - One-hot encoded feature

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?** 1 point
   - Exactly A + B
   - Exactly A * B
   - Less or equal to A * B
   - max(A, B)

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?** 1 point
   - f1 + f2
   - f1.astype(str) + f2.astype(str)
   - f1.astype(str) + "_" + f2.astype(str)
   - (f1 + f2).astype(str)

5. **What is a correct way to get t-SNE projection of train and test data?** 1 point
   - 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.

6. **Is it possible to do t-SNE projection into 20-dimensional space?** 1 point
   - Yes, why not.
   - No, only 2-dim or 3-dim projections are possible.

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