Congratulations! You passed!

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1. Vector x_u and vector x_m must be of the same dimension, where x_u is the input features vector for a user (age, gender, etc.) x_m is the input features vector for a movie (year, genre, etc.) True or false? 1 / 1 point

- True
- False (selected)

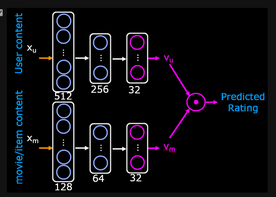
Correct
These vectors can be different dimensions.

2. If we find that two movies, i and k, have vectors $v_m^{(i)}$ and $v_m^{(k)}$ that are similar to each other (i.e., $||v_m^{(i)} - v_m^{(k)}||$ is small), then which of the following is likely to be true? Pick the best answer. 1 / 1 point

- The two movies are very dissimilar.
- A user that has watched one of these two movies has probably watched the other as well.
- We should recommend to users one of these two movies, but not both.
- The two movies are similar to each other and will be liked by similar users. (selected)

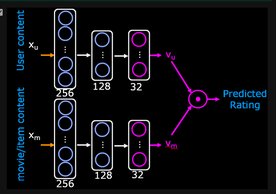
Correct
Similar movies generate similar v_m's.

3. Which of the following neural network configurations are valid for a content based filtering application? Please note carefully the dimensions of the neural network indicated in the diagram. Check all the options that apply. 1 / 1 point



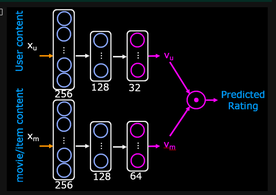
The user and the item networks have different architectures

Correct
User and item networks can be the same or different sizes.

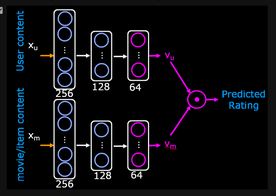


Both the user and the item networks have the same architecture

Correct
User and item networks can be the same or different sizes.



The user vector v_u is 32 dimensional, and the item vector v_m is 64 dimensional



The user and item networks have 64 dimensional v_u and v_m vector respectively

Correct
Feature vectors can be any size so long as v_u and v_m are the same size.

4. You have built a recommendation system to retrieve musical pieces from a large database of music, and have an algorithm that uses separate retrieval and ranking steps. If you modify the algorithm to add more musical pieces to the retrieved list (i.e., the retrieval step returns more items), which of these are likely to happen? Check all that apply. 1 / 1 point

- The system's response time might increase (i.e., users have to wait longer to get recommendations) (selected)

Correct
A larger retrieval list may take longer to process which may increase response time.