

Module 3 Quiz

TOTAL POINTS 7

1. You are given a dataset on movie reviews with a 1,000 labeled reviews. The labels are one of five movie genres: Action, Comedy, Drama, Horror, and Sci-Fi. The dataset has roughly 200 movie reviews for each movie genre.

1 point

Your first task is to learn a supervised classifier to identify just the reviews for Comedy movies from the dataset. Such a task is:

- ☒ Single-class classification
- ☐ Two-class (Binary) classification
- ☐ Multi-class classification
- ☐ Multi-label classification

2. The dataset available for the first task is:

1 point

- ☐ Balanced
- ☐ Insufficient
- ☒ Skewed
- ☐ Unlabeled

3. Suppose you decide to train a support vector machine classifier for this first task. The methodology you will employ will be a:

1 point

- ☐ A. One vs One classifier
- ☐ B. One vs Rest classifier
- ☒ C. Single binary classifier
- ☐ Either A or B
- ☐ Classifier cannot be trained

4. You are given a dataset on movie reviews with a 1,000 labeled reviews. The labels are one of five movie genres: Action, Comedy, Drama, Horror, and Sci-Fi. The dataset has roughly 200 movie reviews for each movie genre.

1 point

Your second task is to learn to identify all five movie genres. Such a task is:

- ☐ Single-class classification
- ☐ Two-class (Binary) classification
- ☒ Multi-class classification
- ☐ Multi-label classification

5. The dataset available for the second task is:

1 point

- ☒ Balanced
- ☐ Insufficient
- ☐ Skewed
- ☐ Unbalanced

6. Suppose you decide to train a support vector machine classifier for the second task. The methodology you will employ will be a:

1 point

- ☐ A. One vs One classifier
- ☐ B. One vs Rest classifier
- ☐ C. Single five-class classifier
- ☒ Either A or B
- ☐ Classifier cannot be trained

7. How many binary classifiers will you need to train for the second task using the one-vs-rest classification approach?

1 point

- ☐ 1

☒ 5

☐ 10

☐ 25