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Logistic Regression Classification Quiz

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1. What is the primary goal of logistic regression in classification tasks? **1 / 1 point**

- To predict continuous numerical values based on input features.
- To minimize the sum of squared errors between predicted and actual values.
- To predict the probability of an input belonging to a particular class or category. ✓
- To classify input data into separate clusters or groups based on similarity.

Correct
Correct! The primary goal of logistic regression is to predict the probability of an input belonging to a particular class or category.

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2. What is the sigmoid function used for in logistic regression? **1 / 1 point**

- The sigmoid function is used to convert the input features into a linear combination.
- The sigmoid function is used to convert the linear combination of input features into a probability value between 0 and 1. ✓
- The sigmoid function is used to map the input features to a higher-dimensional space for non-linear classification.
- The sigmoid function is used to compute the loss function in logistic regression.

Correct
Correct! The sigmoid function is used to convert the linear combination of input features into a probability value, which is bounded between 0 and 1.

3. In binary logistic regression, what is the range of the predicted probability for an input belonging to the positive class? **1 / 1 point**

- 0 to 1 ✓
- -1 to 1
- -∞ to ∞
- 0 to ∞

Correct
This option is correct! In binary logistic regression, the predicted probability for the positive class ranges from 0 to 1.

4. What Scikit-learn method is used to create a logistic regression classifier in Python? **1 / 1 point**

- LogisticRegressionClassifier()
- LogisticRegression() ✓
- LinearRegression()
- RidgeRegression()

Correct
Correct! LogisticRegression() is the Scikit-learn method used to create a logistic regression classifier.

5. In multi-class logistic regression, what is the range of the predicted probability for an input belonging to each class? **1 / 1 point**

- 0 to 1 ✓
- -1 to 1
- -∞ to ∞
- 0 to ∞

Correct
Correct! In multi-class logistic regression, the predicted probability for each class ranges from 0 to 1.