Activation Functions Quiz

3 out of 10 correct

1. Which activation function is commonly used for binary classification tasks?

- [x] Sigmoid
- [ ] ReLU
- [ ] Tanh
- [ ] Softmax

2. Which activation function is suitable for handling the vanishing gradient problem in deep neural networks?

- [ ] Sigmoid
- [ ] ReLU
- [x] Tanh
- [ ] Leaky ReLU

3. Which activation function is commonly used for multi-class classification tasks?

- [ ] Sigmoid
- [x] ReLU
- [ ] Tanh
- [ ] Softmax

4. Which activation function is preferred for most hidden layers in a deep neural network?

- [ ] Sigmoid
- [x] ReLU
- [ ] Tanh
- [ ] Softmax

5. Which activation function can produce negative values and is centered around zero?

- [ ] Sigmoid

- (●) ReLU
- ( ) Tanh
- ( ) Softmax

6. Which activation function is a variant of ReLU that allows a small gradient for negative values?

- ( ) Sigmoid
- (●) ReLU
- ( ) Tanh
- ( ) Leaky ReLU

7. Which activation function can map any real-valued number to a value between 0 and 1?

- ( ) Sigmoid
- ( ) ReLU
- (●) Tanh
- ( ) Softmax

8. Which activation function does not introduce non-linearity to the model?

- ( ) Sigmoid
- ( ) ReLU
- (●) Tanh
- ( ) Linear

9. Which activation function is used for binary classification tasks where the output ranges from -1 to 1?

- ( ) Sigmoid
- ( ) ReLU
- (●) Tanh
- ( ) Softmax

10. Which activation function is less prone to the "vanishing gradient" problem compared to the sigmoid function?

- ( ) Sigmoid

- [ ] ReLU
- [x] Tanh
- [ ] Softmax

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