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Advanced Deep Learning Techniques - Assessment

Graded Assignment • 15 min

Due Mar 6, 11:

1 point

1. When loading the VGG16 model, what does setting include_top=False signify?

- It excludes the final fully connected classification layers of the model
- It excludes the convolutional base of the model
- It loads the model without pre-trained weights
- It disables transfer learning

1 point

2. What is the purpose of freezing layers in the VGG16 model during transfer learning?

- To prevent the pre-trained weights from being updated during training
- To slightly speed up the training process
- To ensure the model learns only from the new data
- To reduce the model's complexity

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3. Which activation function maps the input to a range between 0 and 1 and is historically popular but suffers from vanishing gradients?

- Sigmoid
- Hyperbolic Tangent (tanh)
- Rectified Linear Unit (ReLU)
- Linear

1 point

4. Which activation function is similar to sigmoid but maps the input to a range between -1 and 1?

- A: Sigmoid
- Hyperbolic Tangent (tanh)
- Rectified Linear Unit (ReLU)
- Linear

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- Hyperbolic Tangent (tanh)
- Rectified Linear Unit (ReLU)
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1 point

4. Which activation function is similar to sigmoid but maps the input to a range between -1 and 1?

- A: Sigmoid
- Hyperbolic Tangent (tanh)
- Rectified Linear Unit (ReLU)
- Linear

1 point

5. Which of the following is a common approach in transfer learning?

- Training a model from scratch with random weights
- Completely discarding pre-trained models in every training iteration
- Avoiding the use of neural networks
- Using a pre-trained model as a feature extractor and fine-tuning only specific layers

