1 point

1. What type of data are Convolutional Neural Networks (CNNs) primarily designed to process?

- ○ Sequential data, such as text or time series
- ○ Tabular data with structured features
- ◉ Grid-like data, such as images and video
- ○ Audio data

1 point

2. What is the primary purpose of Pooling Layers in a CNN?

- ○ To increase the spatial dimensions of the data
- ○ To introduce non-linearity into the model
- ◉ To reduce the spatial dimensions of the data by downsampling
- ○ To generate the final output predictions

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- ○ To introduce non-linearity into the model
- ◉ To reduce the spatial dimensions of the data by downsampling
- ○ To generate the final output predictions

1 point

3. What is the core concept behind transfer learning?

- ○ Training a model from scratch on a small dataset.
- ◉ Leveraging knowledge from a pre-trained model on a new but related task.
- ○ Creating a completely new neural network architecture for every task.
- ○ Only using labeled data for training.

1 point

4. In which scenario is transfer learning most likely to be beneficial?

- ○ You have abundant labeled data for your specific task.
- ○ The pre-trained model was trained on a task completely unrelated to your target task.
- ○ You have ample computational resources and a large dataset for your new task.
- ◉ You have a small dataset for your specific task and limited computational resources.