

Convolutional Neural Networks (CNNs) are specialized neural networks for processing data with grid-like topology, such as images.

CNNs use convolutional layers to scan input features with filters, detecting spatial hierarchies.

Key components include convolutional layers, pooling layers, and fully connected layers.

Activation functions such as ReLU introduce non-linearity.

CNNs reduce the number of parameters via weight sharing, improving efficiency.

Popular architectures include LeNet, AlexNet, VGG, GoogLeNet, and ResNet.

CNNs are widely used in image recognition, segmentation, and video analysis.

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