VGG16 (Pre-trained on ImageNet)

All Convolutional Layers Frozen

Input (224×224×3) → **Conv Block 1 (64 filters)** → **Conv Block 2 (128 filters)** → **Conv Block 3 (256 filters)** → **Conv Block 4 (512 filters)** → **Conv Block 5 (512 filters)** → **Flatten (25088)**

Custom Classifier

Trainable Layers

Dense(256) ReLU

↓

Dropout(0.5)

↓

Dense(128) ReLU

↓

Dropout(0.5)

↓

Dense(2) Softmax

Pistachio Classification