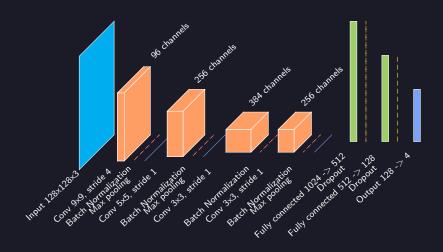
Custom CNN Architecture



Classification

Training Details

Training parameters:

Epochs: 50 Batch size: 64

• Learning rate: 1×10^{-4}

• **Optimizer**: Adam (weight decay 1×10^{-5})

• Scheduler: stepLR (step size 10, gamma 0.5)

• Loss function: Cross-entropy

• Activation function: Mish

• Dropout rate: 0.4

• Image size: 128 × 128

Classification

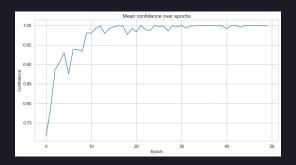
Training Loss and Accuracy



- Final training loss: 3.6×10^{-3}
- Final training accuracy: 99.9%

Classification

Confidence and Test Accuracy



• Final training confidence: 99.9%

• Final test confidence: 99.9%

• Final test accuracy: 99%