

**21/21** ━━━━━━━━━━━━━━━━━━━━ **3s** 53ms/step - accuracy: 0.6493 - loss: 1.4083

Loss = 1.373705506324768

Test Accuracy = 0.6562985777854919

Epoch 40/40

**119/119** ━━━━━━━━━━━━━━━━━━━━ **4s** 36ms/step - accuracy: 0.8709 - loss: 0.3401

**Model: "ALEXNET\_Test1"**

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┃ **Layer (type)** ┃ **Output Shape** ┃ **Param #** ┃

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│ input\_layer (InputLayer) │ (None, 227, 227, 3) │ 0 │

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│ conv1 (Conv2D) │ (None, 55, 55, 96) │ 34,944 │

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│ max\_pooling2d (MaxPooling2D) │ (None, 27, 27, 96) │ 0 │

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│ bn\_conv1 (BatchNormalization) │ (None, 27, 27, 96) │ 384 │

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│ conv2 (Conv2D) │ (None, 27, 27, 256) │ 614,656 │

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│ max\_pooling2d\_1 (MaxPooling2D) │ (None, 13, 13, 256) │ 0 │

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│ bn\_conv2 (BatchNormalization) │ (None, 13, 13, 256) │ 1,024 │

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│ conv5 (Conv2D) │ (None, 13, 13, 256) │ 590,080 │

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│ max\_pooling2d\_2 (MaxPooling2D) │ (None, 6, 6, 256) │ 0 │

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│ flatten (Flatten) │ (None, 9216) │ 0 │

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│ fc1 (Dense) │ (None, 4096) │ 37,752,832 │

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│ fc2 (Dense) │ (None, 4096) │ 16,781,312 │

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│ fc6 (Dense) │ (None, 6) │ 24,582 │

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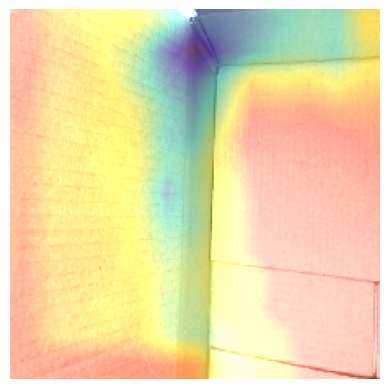
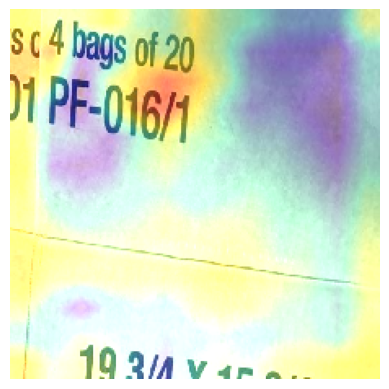
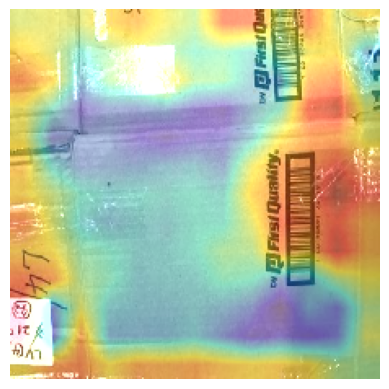
**Total params:** 167,398,036 (638.57 MB)

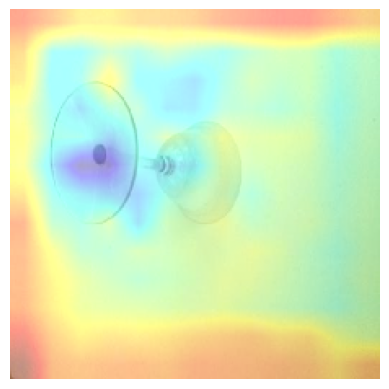
**Trainable params:** 55,799,110 (212.86 MB)

**Non-trainable params:** 704 (2.75 KB)

**Optimizer params:** 111,598,222 (425.71 MB)

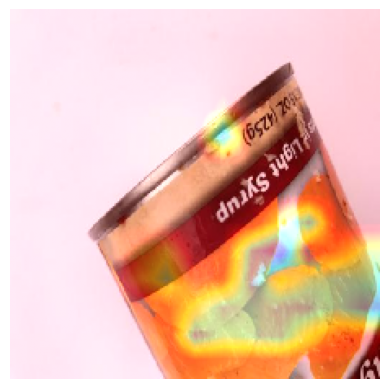
**CARDBOARD PHOTOS**

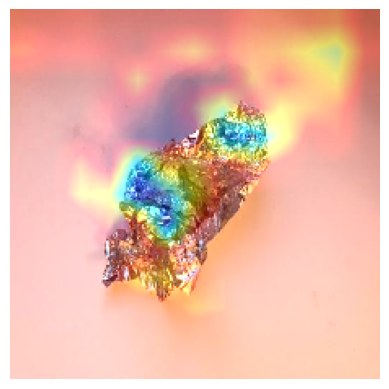
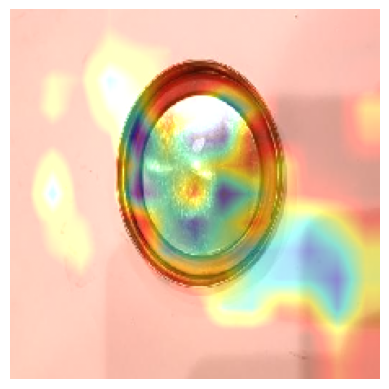


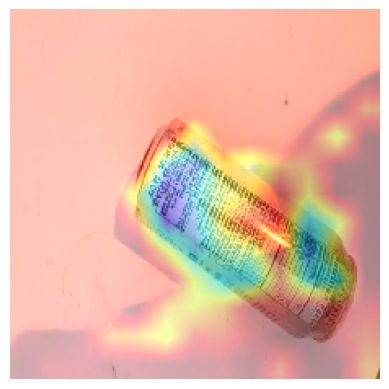
**GLASS PHOTOS**





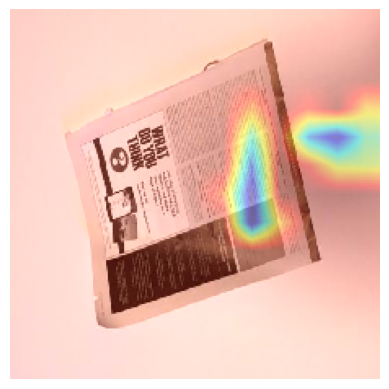
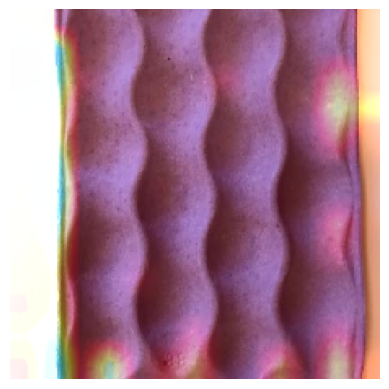
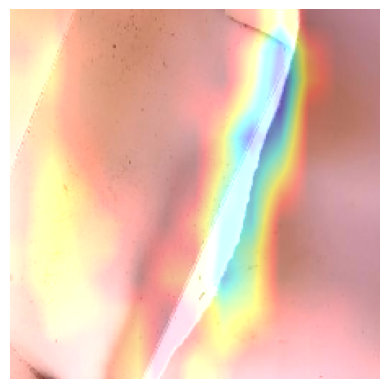


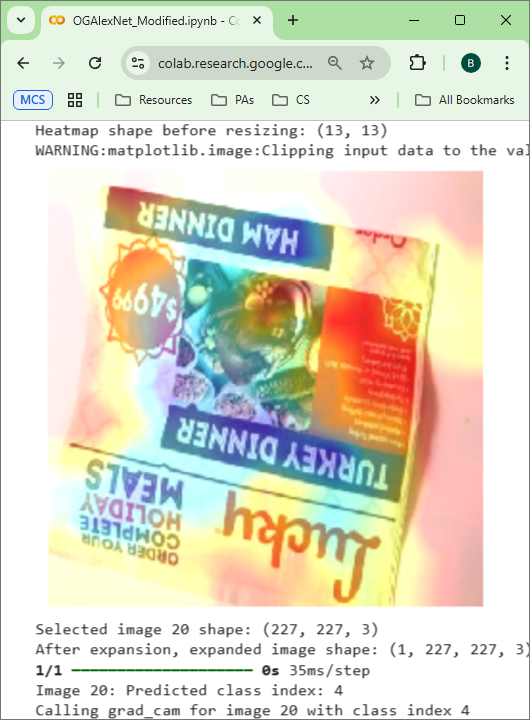
**Metal** 

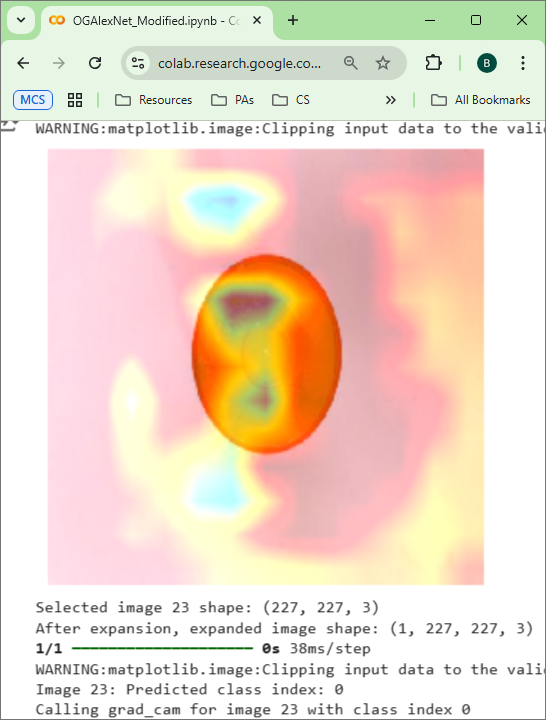


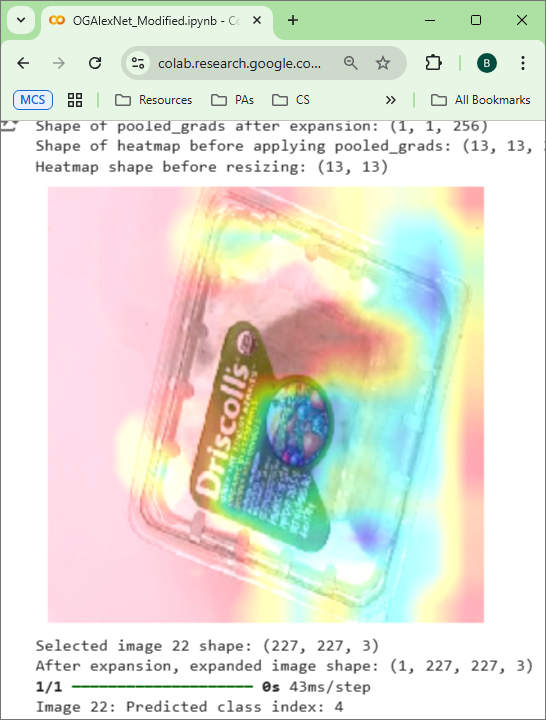
**METAL PHOTOS**

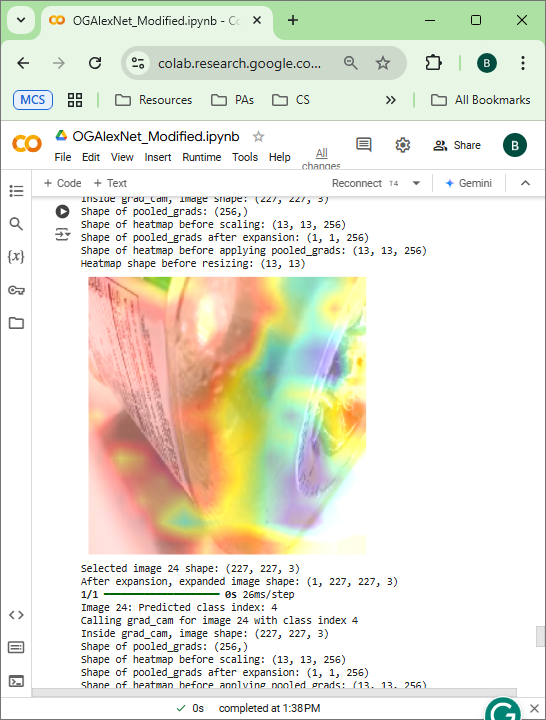
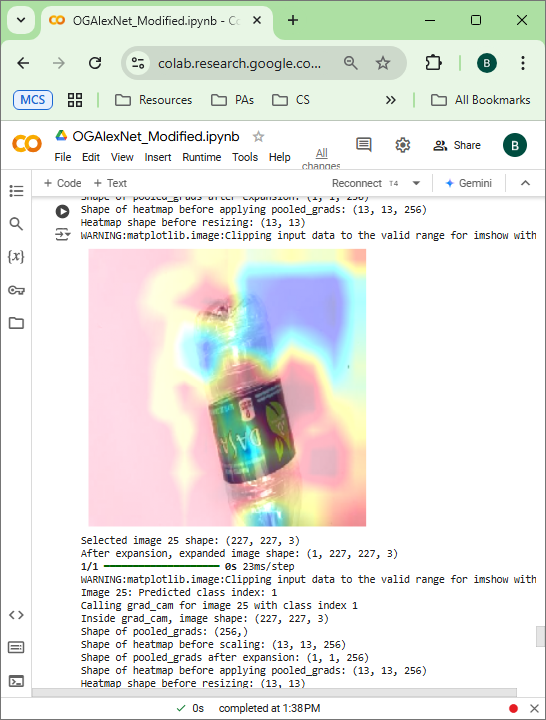
**PAPER**







**PLASTIC**



**TRASH**