```
* Resize the image using different interpolation methods
resize_linear = col.resize(lens, (256, 256), interpolation-cv2.INTER_LINEAR)
resize_nerset = cv2.resize(lene, (258, 258), interpolation-cv2.INTER_LEGIST)
resize_cubic = cv2.resize(lens, (256, 256), interpolation-cv2.INTER_CUBIC)
* Apply different blarring techniques
tou blur = cv2.blur(lena, {5, 5})
gussiam blur = cv2.GusssiamBlur(lena, {5, 5}, 8)
adaptive blur = cv2.bilaterulFilter(lena, 9, 75, 75)
# Plot the results
fig. mose = plt.nubplots(3, 3, figsize=(12, 12))
axes = axes.ravel()
# Griginal Image
axes[8].inshow(lens)
axes[8].set_title("Griginal Image")
  # Resized Images
axes[1].inshow(resize_linear)
axes[1].set_title("Linear Interpolation")
axes[2].imshow(resize_nearest)
axes[2].set_title("Wearest Neighbor")
axes[3].inshow(resize_cubic)
axes[3].set_title("Cubic Interpolation")
# Blurred Images
accs[4].inshow[box_blur]
accs[4].set_title("Box_Blurring")
axes[5].inshow(goussiam_blur)
axes[5].set_title("Gaussian Blarring")
axes[6].inshow(adaptive_blur)
axes[6].set_title("Adaptive Blurring")
# Turn off axes for all
for ax in axes:
ax.axis("off")
  plt.tight_layout()
plt.show()
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  and the MIST detect (as silener's load_digits is similar to MREST for demonstration purposes) data = load_digits() x = cats_digits() x = cats_digits()
     E Binarize the labels for multi-class BOC-MUC n_classes = len(np.unique(y))
y_bin = label_binarize(y, classes=range(s_classes))
  # Split into train and test sets (00-20 split)
%_train, %_test, __train, y_test = train_cest_uplit(%, y, test_size=0.2, remove_state=0.2, strain(yvy)
y_test_bin = 10de_limin=fue_jcest, (lasses-range(~_lasses))
  # Initialize K-Fold Cross Validation

Kf = KFold(n_splits=5, shuffle=True, random_state=42)
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Tab
  ACC Curve
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Decision Tiele ROC curve (class 1)
Decision Tiele ROC curve (class 1)
Decision Tiele ROC curve (class 3)
Decision Tiele ROC curve (class 5)
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from alknown models issort course; core, precision_score, recall_score, fi_score, confusion_matrix, noc_auc_score
```

import cv2 import numpy as np import matplotlib.pyplot as plt # Load the Lena image lana = cv2.imread(cv2.samples.find#ile(lena_img.png')) lena = cv2.cvtColor(lena, cv2.CDLOR_BGR2868)

```
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