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CODE:
import cv2
import numpy as np
import os
# Load the original image
original_path = r"C:\Users\harik\Downloads\CV LAB\MOUNTAIN.jpeg" # Replace with your image
path
watermark_path = r"C:\Users\harik\Downloads\CV LAB\watermark-logo-png-transparent.png"
Replace with your watermark image path
original = cv2.imread(original_path)
if original is None:
  print("Error: Could not load original image.")
  exit()
# Try to load the watermark image
if os.path.exists(watermark_path):
  watermark = cv2.imread(watermark_path, cv2.IMREAD_UNCHANGED)
  if watermark is None:
    print("Error: Watermark image is corrupted or unreadable.")
    exit()
  # Resize watermark
  (h_o, w_o) = original.shape[:2]
  (w_w, w_h) = (int(w_o * 0.2), int(h_o * 0.2)) # 20\% size
  watermark = cv2.resize(watermark, (w_w, w_h))
  # Split channels if watermark has alpha
  if watermark.shape[2] == 4:
    overlay = watermark[:, :, :3]
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alpha = watermark[:, :, 3] / 255.0
    alpha = cv2.merge([alpha, alpha, alpha])
  else:
    overlay = watermark
    alpha = np.ones_like(overlay, dtype=np.float32)
  # Set position: bottom-right corner
  x_offset = w_o - w_w - 10
  y_offset = h_o - w_h - 10
  roi = original[y_offset:y_offset + w_h, x_offset:x_offset + w_w]
  # Blend watermark into ROI
  blended = (alpha * overlay + (1 - alpha) * roi).astype(np.uint8)
  original[y_offset:y_offset + w_h, x_offset:x_offset + w_w] = blended
else:
  # Fallback to text-based watermark
  print("Watermark image not found. Using text watermark instead.")
  font = cv2.FONT_HERSHEY_SIMPLEX
  text = "CONFIDENTIAL"
  font_scale = 1
  thickness = 2
  color = (0, 0, 255) # Red text
  text_size = cv2.getTextSize(text, font, font_scale, thickness)[0]
  x = original.shape[1] - text_size[0] - 10
  y = original.shape[0] - 10
  cv2.putText(original, text, (x, y), font, font_scale, color, thickness, cv2.LINE_AA)
# Show and Save
cv2.imshow("Watermarked Image", original)
cv2.imwrite("watermarked_output.jpg", original)
```

OUTPUT:

