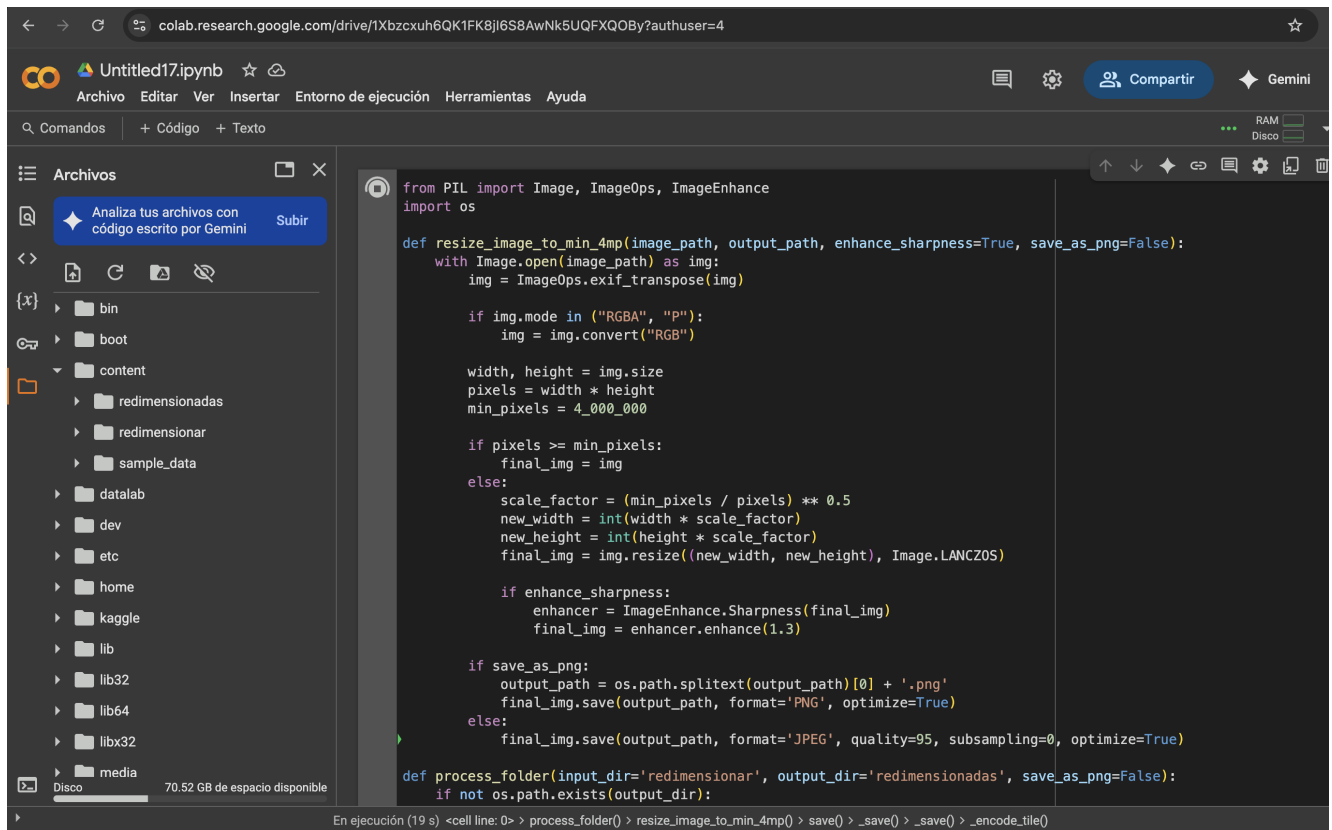


# Redimensionador de imágenes por lotes en Python



The screenshot shows a Google Colab notebook titled "Untitled17.ipynb". The left sidebar displays a file explorer with a directory structure including "bin", "boot", "content" (with subfolders "redimensionadas", "redimensionar", and "sample\_data"), "datalab", "dev", "etc", "home", "kaggle", "lib", "lib32", "lib64", "libx32", and "media". The main area contains a Python script that defines a function to resize images to a minimum of 4MP, with options for sharpening and saving as PNG. The script uses PIL and os modules. The status bar at the bottom indicates the notebook is running, with a progress bar and a log of executed cells.

```
from PIL import Image, ImageOps, ImageEnhance
import os

def resize_image_to_min_4mp(image_path, output_path, enhance_sharpness=True, save_as_png=False):
    with Image.open(image_path) as img:
        img = ImageOps.exif_transpose(img)

        if img.mode in ("RGBA", "P"):
            img = img.convert("RGB")

        width, height = img.size
        pixels = width * height
        min_pixels = 4_000_000

        if pixels >= min_pixels:
            final_img = img
        else:
            scale_factor = (min_pixels / pixels) ** 0.5
            new_width = int(width * scale_factor)
            new_height = int(height * scale_factor)
            final_img = img.resize((new_width, new_height), Image.LANCZOS)

        if enhance_sharpness:
            enhancer = ImageEnhance.Sharpness(final_img)
            final_img = enhancer.enhance(1.3)

        if save_as_png:
            output_path = os.path.splitext(output_path)[0] + '.png'
            final_img.save(output_path, format='PNG', optimize=True)
        else:
            final_img.save(output_path, format='JPEG', quality=95, subsampling=0, optimize=True)

def process_folder(input_dir='redimensionar', output_dir='redimensionadas', save_as_png=False):
    if not os.path.exists(output_dir):
```

En ejecución (19 s) <cell line: 0> > process\_folder() > resize\_image\_to\_min\_4mp() > save() > \_save() > \_save() > \_encode\_tile()

[crayon-6a9d47bd22b81347822459/]