```
import cv2
import numpy as np
import matplotlib.pyplot as plt
from google.colab import files
from scipy.ndimage import median_filter
# Upload the image file
uploaded = files.upload()
# Load the uploaded image
image = cv2.imread(next(iter(uploaded)))
# Convert the image from BGR (OpenCV default) to RGB (for displaying with Matplotlib)
image_rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
# Function to apply Median Filter
def median_filter_func(image, kernel_size=3):
    Apply median filter to the given image.
   Parameters:
    - image: Input image (numpy array).
    - kernel_size: The size of the kernel (odd integer, e.g., 3, 5, 7).
    - filtered_image: Image after applying the median filter.
    # Apply the median filter using scipy.ndimage.median_filter function
    filtered_image = median_filter(image, size=kernel_size)
   return filtered_image
# Apply the median filter
filtered_image = median_filter_func(image, kernel_size=3)
# Convert the filtered image to RGB for display
filtered_image_rgb = cv2.cvtColor(filtered_image, cv2.COLOR_BGR2RGB)
# Display the original and filtered images
plt.figure(figsize=(10, 5))
plt.subplot(1, 2, 1)
plt.imshow(image_rgb)
plt.title("Original Image")
plt.axis('off')
plt.subplot(1, 2, 2)
plt.imshow(filtered_image_rgb)
plt.title("Filtered Image (Median Filter)")
plt.axis('off')
plt.show()
Choose Files rohit kohli.jpg
```

Original Image

Saving rohit kohli.jpg to rohit kohli.jpg

rohit kohli.jpg(image/jpeg) - 111789 bytes, last modified: 3/27/2025 - 100% done





