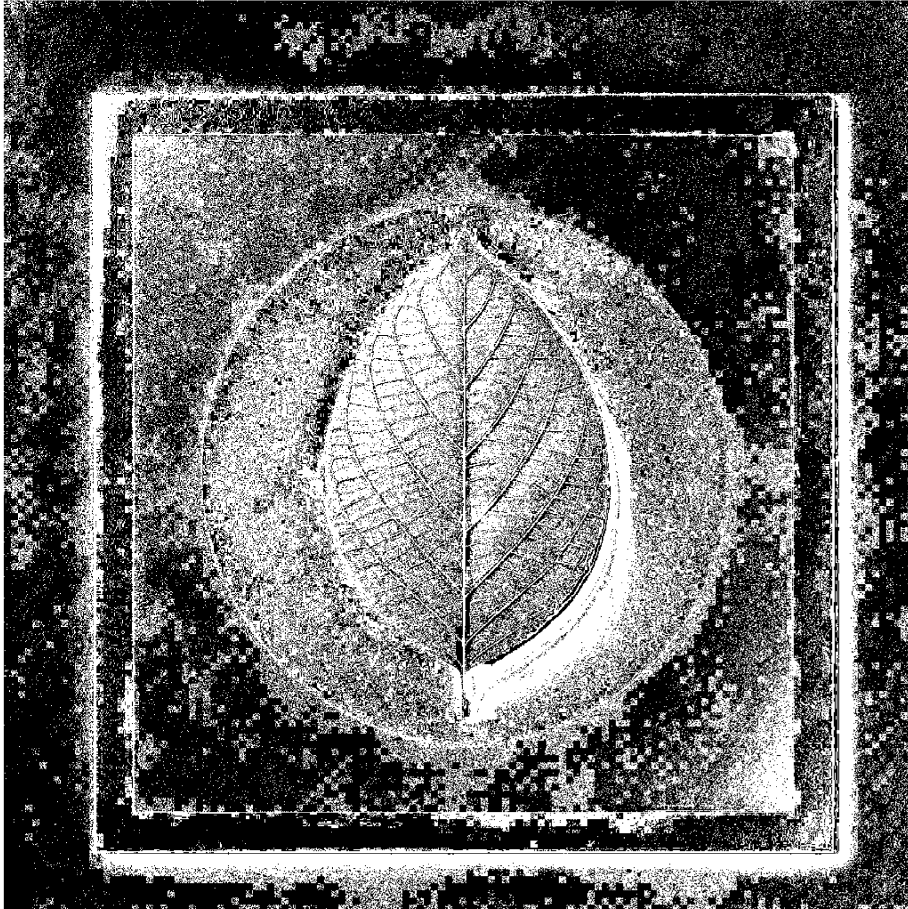


```
% Load and convert the image to grayscale
image = imread("C:\Users\Pavan\Desktop\KMG.PNG.png");

% Create a binary mask for the ROI
mask = image > 100;
figure; imshow(mask); title('Binary Mask for Region of Interest');
```

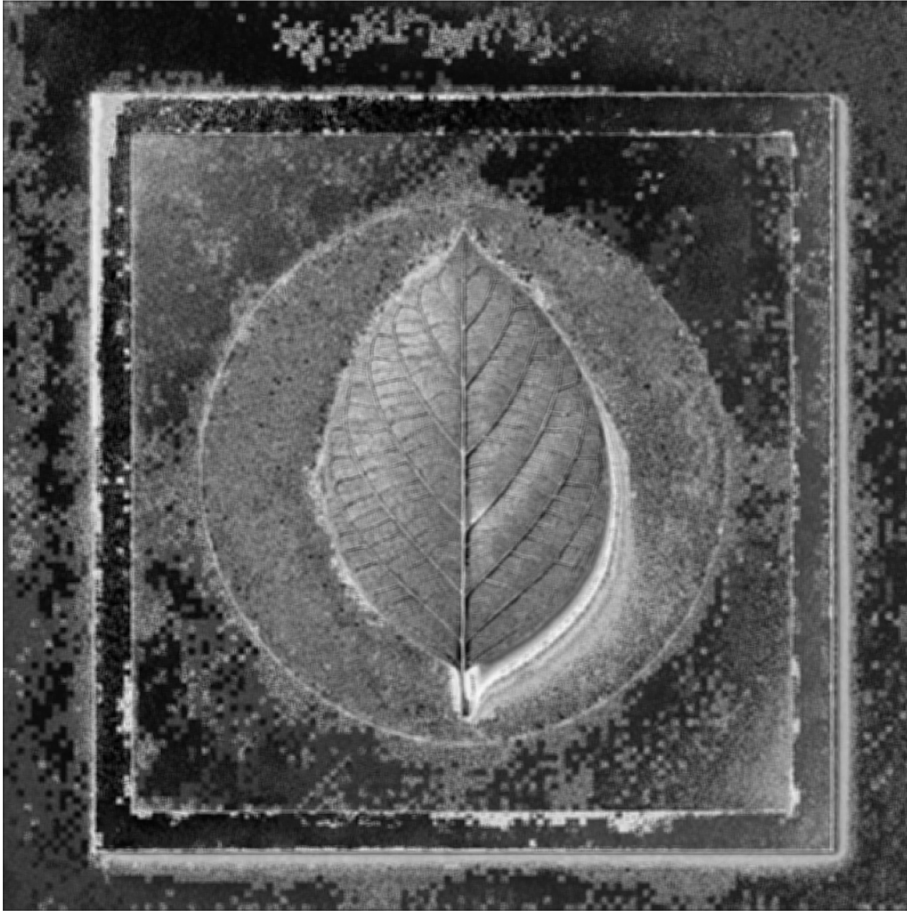
Binary Mask for Region of Interest



```
% Apply Average Filter
```

```
avg_filtered = imfilter(double(image), fspecial('average', [5, 5]));  
figure; imshow(uint8(avg_filtered)); title('Average Filtered Image');
```

Average Filtered Image




```
% Apply Laplacian High-Pass Filter  
laplacian_filtered = imfilter(double(image), fspecial('laplacian', 0.2));  
figure; imshow(uint8(laplacian_filtered)); title('Laplacian Filtered Image');
```

Laplacian Filtered Image



```
% Apply Prewitt High-Pass Filter  
prewitt_filtered = edge(image, 'prewitt');  
figure; imshow(prewitt_filtered); title('Prewitt Filtered Image');
```

Prewitt Filtered Image

