```
from google.colab import files
from IPython.display import Image
uploaded=files.upload()
```

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving OIP.jpg to OIP.jpg

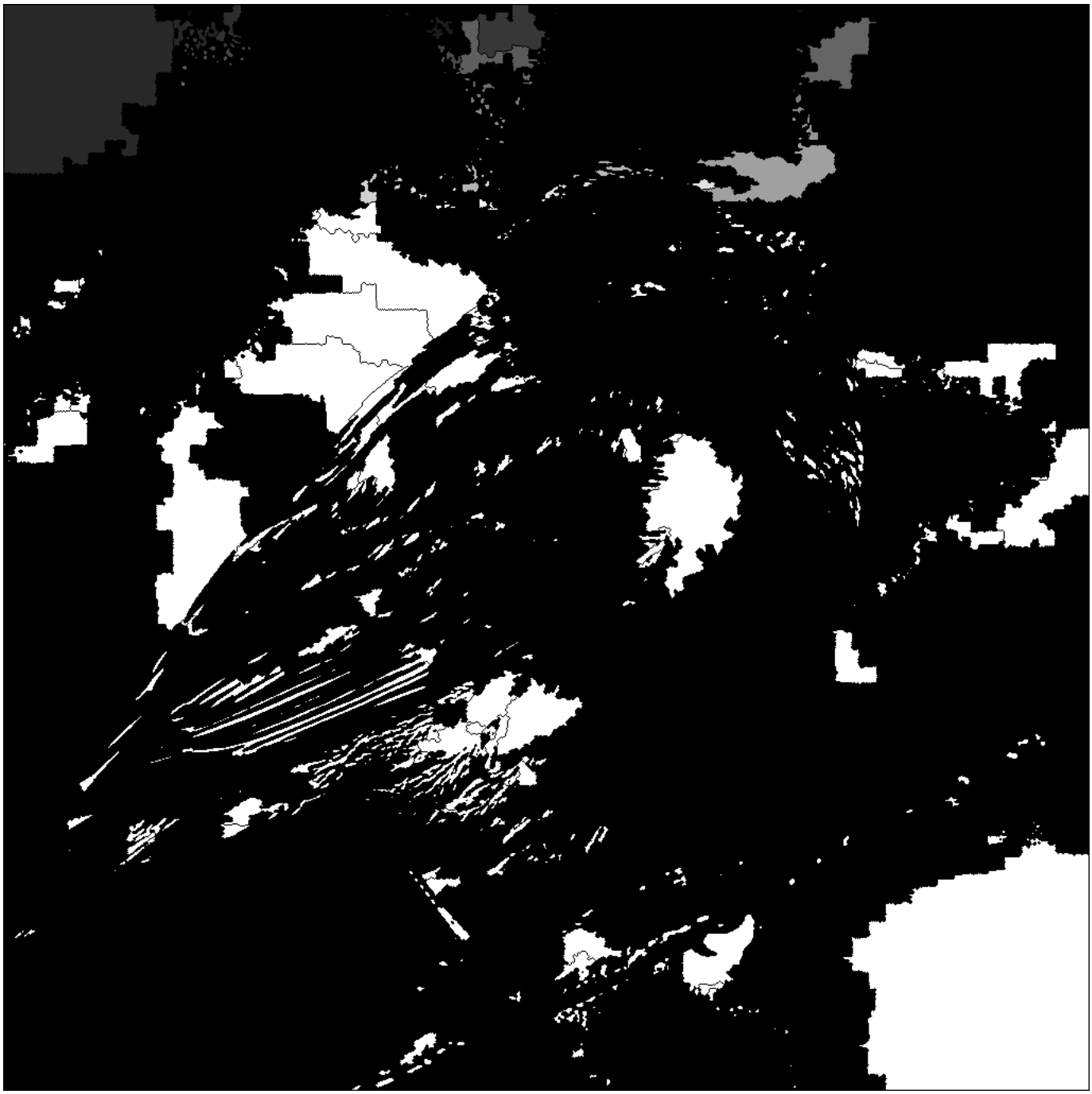
```
import matplotlib.pyplot as plt
import cv2
from google.colab.patches import cv2_imshow

image_path = 'OIP.jpg'

image=cv2.imread(image_path)
cv2_imshow(image)
```

```
#Treshold based
gray=cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
#Set the threshold value threshold value
threshold value=120
```

```
#Threshold the image to create a binary image
_, binary_image = cv2.threshold (gray, threshold_value, 255, cv2.THRESH_BINARY)
cv2_imshow(binary_image)
```

```
#Watershed Algo
import numpy as np
gray = cv2.GaussianBlur(gray, (5,5), 0)

_, binary_image = cv2.threshold (gray, 0, 255, cv2.THRESH_BINARY | cv2. THRESH_OTSU)
kernel = np.ones((3,3),np.uint8)

opening = cv2.morphologyEx(binary_image, cv2.MORPH_OPEN, kernel, iterations=2)

background_mask=cv2.dilate(opening,kernel,iterations=3)

foreground_mask=cv2.subtract(binary_image,opening)

_,markers=cv2.connectedComponents(foreground_mask)

markers += 1
```

```
markers[background_mask == 255] = 0

segmentation=cv2.watershed(image,markers)
cv2_imshow(segmentation)
```



Start coding or generate with AI.