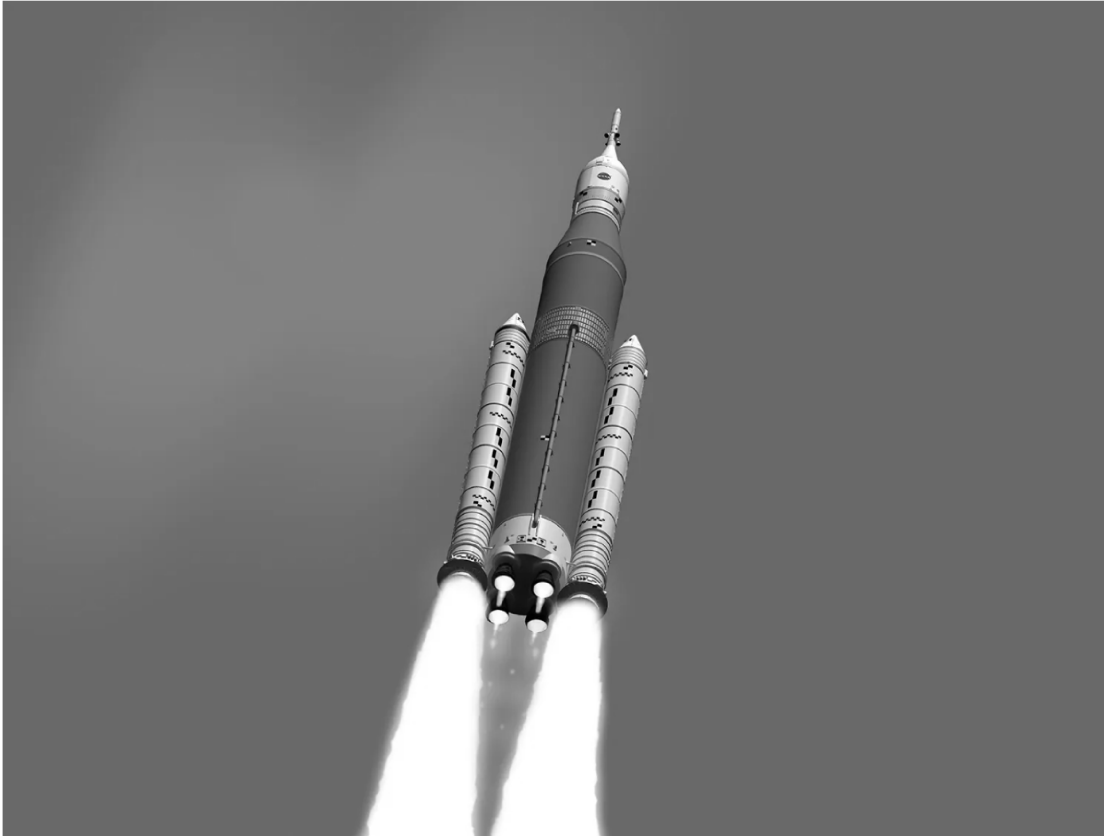


```
% Step 1: Read the image
img = imread('Rocket.png');

% Step 2: Convert to grayscale
grayImg = rgb2gray(img);
imshow(grayImg);
```



```
% Step 3: Normalize the grayscale values
normImg = double(grayImg) / 255;

% Step 4: Rescale to 32 levels
quantizedImg = round(normImg * 31);

% Step 5: Resize the image (keeping the same size)
resizedImg = imresize(quantizedImg, [size(grayImg, 1), size(grayImg, 2)]);

% Step 6: Convert back to grayscale range
finalImg = resizedImg * (255 / 31);

% Step 7: Convert to unsigned 8-bit integer
finalImg = uint8(finalImg);
imshow(finalImg);
```

