Image preprocessing

Skull stripping:

1. [Adaptive thresholding](https://www.pyimagesearch.com/2021/05/12/adaptive-thresholding-with-opencv-cv2-adaptivethreshold/)
2. [Edge detection](https://www.pyimagesearch.com/2021/05/12/opencv-edge-detection-cv2-canny/)
3. [Connected component analysis](https://www.pyimagesearch.com/2021/02/22/opencv-connected-component-labeling-and-analysis/)

Filtering:

1. [Gaussian Blur filter](https://www.tutorialspoint.com/opencv/opencv_gaussian_blur.htm)

Segmentation using K Means:

1. K means segmentation

Morphological operations:

1. [Erosion and Dilation](https://docs.opencv.org/3.4/db/df6/tutorial_erosion_dilatation.html) opencv
2. [Erosion and dilation pyimagesearch](https://www.pyimagesearch.com/2021/04/28/opencv-morphological-operations/)

Image contouring

1. [Advanced contour properties](https://customers.pyimagesearch.com/lesson-sample-advanced-contour-properties/)
2. [Centers of contours](https://www.pyimagesearch.com/2016/02/01/opencv-center-of-contour/)
3. [Finding extreme points](https://www.pyimagesearch.com/2016/04/11/finding-extreme-points-in-contours-with-opencv/)

Feature extraction

1. [GLCM texture features](https://scikit-image.org/docs/dev/auto_examples/features_detection/plot_glcm.html)
2. [Measure region properties](https://scikit-image.org/docs/dev/auto_examples/segmentation/plot_regionprops.html)

Other features were extracted using functions from numpy and scipy