Preprocessing:

1. Binarization using Otsu
2. Erosion Dilation of image and remove excess details.
3. Use GVF to find the boundary of the breast. (Active Contour)
4. Density correction using distance map.
5. Remove muscle using Hough/Gabor filter

Diagnosis:

1. Histogram Analysis
2. K-means

Benign/Malignant:

1. Comparison using symmetry?
2. Gradient Analysis/Rose Diagram : Set a threshold for histogram and diagnose.