Preprocessing:

1. Binarization using Otsu : Prasad
2. Erosion Dilation of image and remove excess details. : Prasad
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.