Healthcare organizations face increasing pressure to both mine and report clinical, operational, R&D, supply chain, HR and workforce data to improve patient care, while complying with strict federal regulations and keep the costs at a low.

A McKinsey Global Institute Analysis has identified four distinct big data pools and recommended that the integration of these data pools introduces bigger opportunities.

- Clinical/Providers data (EHR/EMR, Diagnostic Images)
- Patient behavior and sentiment data
- Claims data from payers
- Pharma R&D Data

**Big Data and Connected Healthcare Framework – eSMART RIS**

ALTEN Calsoft Labs' Big Data solutions along with “Connected Healthcare Framework” can provide smart bio-medical image analysis and classification solutions to diagnose and carry out prognosis study for diseases like breast cancer.

The solution provides a quicker and automated way of segmenting regions and interesting features for Radiologists and Clinicians using image processing, analysis and segmentation techniques.

Our proprietary Bio Medical Analytics platform provides distributed storage, analysis and computing capabilities to process huge mammogram images and generate results of, analysis, segmentation and prognosis in parallel.
Healthcare - Big Data Technology Excellence

**eSMART RIS – Features**

- Tumor detection through image segmentation
- Classify the tumor to be Benign/Malignant
- Report generation through learning algorithm
- Quick historical image analysis
- FNA and Mammogram images Analysis and Classification
- Vulnerability assessment based on images and patient history

**eSMART RIS – Advantages**

- Analytics as a Service for Radiologists/Physicians
- Prognosis of cancer tumors
- Adoptive models for accurate prediction and prognosis
- Cloud based service to hospitals/radiologists

**Why ALTEN Calsoft Labs**

- 20 Years of proven healthcare IT/product engineering excellence
- Rated amongst the top healthcare product engineering solutions provider by Zinnov Management Consultants Pvt Ltd
- 1,000+ person years of healthcare IT/Engineering experience
- Established Healthcare center of excellence
- Dedicated Cloud and Big Data labs for healthcare

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