**Predicting Breast Cancer Diagnosis**

**Abstract:**

Breast Cancer is contributing as most common cancers and second leading causes of cancer death among women. However, it can be cured if caught at early stages but that requires rapid and accurate diagnosis. The objective of this project is to develop a predictive model that can classify cancerous tumor as benign (no cancer) or malignant (cancer) with high accuracy and faster processing time. To achieve this task, a Classification algorithm will be used on a multivariate data set of Breast Cancer Wisconsin (Original) obtained from UCI Machine Learning repository (<https://archive.ics.uci.edu/ml/datasets/Breast+Cancer+Wisconsin+%28Original%29>). This entire technique will be developed in R using RStudio.