**Synopsis**

**Breast Cancer Diagnostics**

Breast Cancer is the most leading malignancy affecting 2.1 million women each year which leads to greatest number of deaths among women. Early treatment not only helps to cure cancer but also helps in prevention of its recurrence. And hence this system mainly focuses on prediction of breast cancer.

I just refer dataset from kaggle. In dataset wants to check that the person is benign(not cancerous)or malignant(cancerous).The diagnostics is based on binary classification. It uses different machine learning algorithms for creating models like decision tree, logistic regression, random forest, applied some classifiers like KNN, Support Vector Machine, Naïve Bayes, Ensampling techniques like bagging and boosting which are on pre-processed data which suspects greater accuracy for prediction. Amongst all the models, Support Vector Machine Classification leads to best accuracy with almost 95% to 96%. These techniques are coded in python and uses numpy, pandas, seaborn, matplotlib, sklearn libraries.