# Data Science

Repository for Algorithms

#### Breast Cancer\_Classification

In this project we will be exploring the breast cancer diagnosis data from the sklearn.datasets. We will try to create a model that will help predict if the cancer cells are beningn or malignant base on the data behaviours.

We will using several classification algorithms and verify the performance of each against the results.

- Linear Regression with penalty (lasso)

- Random Forest (entropy)

- SVM (linear)

- SVM (RBF)

Performance Tuning

- K-fold validation

- GridSearch (entropy and gini criterion

#### Classifier Customer Satisfaction

This Fintech project can help predict the customer satisfaction based on their activities to a certain bank. To leverage this model, business should target those customers predicted to be not satisfied and provide more favourable offers to retain their continued patronage of the service offered by bank. Sample offers could be like credit card rewards, favourable rates, ease in transactions and others. This is an effective way to maximize its importance and target only those subset customers (not satisfied) in order to save resources and further realize business gains.