

# Breast Cancer Detection Using Machine Learning

Group No:10

Group Members: Akanksha Dewangan (MT19049), Priyanka Boral (MT9127),  
Reecha Kumari Giri (MT19134) , Shalini Bhardwaj (MT19045)

## *Steps to Implement the project:*

- The data set used in the project is the file “data.csv”
- “data.csv” file is the input to the code.
- The code is contained in “code.py”. This python file contains all the models.
- The code outputs the accuracy, graphs and other evaluation metrics for all the models.
- The output of the code with different classifiers is contained in the following files:
  - ❑ Output of KNN with k=3: “knn\_k=3.csv”
  - ❑ Output of KNN with k=5: “knn\_k=5.csv”
  - ❑ Output of SVM classifier: “svm.csv”
  - ❑ Output of Light Gradient Boosting classifier: “lgbm.csv”
  - ❑ Output of MLP classifier: “mlp.csv”
  - ❑ Output of Gaussian process classifier: “gpr.csv”
  - ❑ Output of LSTM: “lstm.csv”
  - ❑ Output of Neural Network with Dense layers: “NN.csv”.
- The output csv files of the model contain the ID of the test data and their predicted labels. Predicted labels are 0 and 1. 1 is for Malignant and 0 is for Benign.