In many Cancer diseases, Breast cancer is a standout amongst women. All around the globe, speaking to most new cancer cases and cancer-related diseases are prompting passing as indicated by worldwide insights, making it a most huge general medical issue in the present society. The early analysis of Breast Cancer can improve the anticipation and shot of survival fundamentally, as it can propose opportune clinical treatment to patients. There are datasets that are given by UCI information store (The UCI Machine Learning Repository is a gathering of databases, area speculations, and information generators that are utilized by the machine learning network for the experimental examination of machine learning calculations) for Machine Learning for Breast Cancer finding.

Project is divided into 3 Modules. In first module, Machine Learning Algorithms are compared by giving dataset values. Five efficient Machine Learning Algorithms viz., Support Vector Machine (SVM), Random Forest, K Nearest Neighbor, Logistic Regression and Naïve Bayes are considered. It is proven that SVM has highest accuracy of 98.37%. In second module, using AI Builder tool dataset is loaded. After loading dataset some id\_numbers along with attributes are learnt. The remaining attributes are learnt using SVM (inbuilt in software) algorithm. After this learned dataset file is exported with .dll file. In third module, a MFC based C++ application is developed in Microsoft Visual Studio taking 9 attributes as Input from slider control and giving Output at top right corner saying whether tumor is Benign or Malignant.

The outcome of our project is to successfully classify tumor whether it is Benign or Malignant in Breast Cancer patients. All the 10 attributes considered are main reason caused for cancer. These requirements were given as input file and then pre-processing was done. The next set of modules managed to train the machine by using 80% of dataset and rest was used for testing purpose. Classifying ML algorithms are used to detect type of cells and result is shown. A Dialog Box is popped-up after running MFC based C++ program that is loaded with learned dataset file. After entering all the attributes in Dialog Box, it will classify whether cancer is Benign or Malignant.