Breast cancer is the most common types of cancer in women and the correct diagnosis can help treatment immensely. The goal of this application is to find out weather or not the tumor is benign or malignant based on previous data obtained from

We do this by comparing some metrics such as

* radius (mean of distances from center to points on the perimeter)
* texture (standard deviation of gray-scale values)
* perimeter
* area
* smoothness (local variation in radius lengths)
* compactness (perimeter^2 / area - 1.0)
* concavity (severity of concave portions of the contour)
* concave points (number of concave portions of the contour)
* symmetry
* fractal dimension (“coastline approximation” - 1)

Graphical user interface

Description automatically generated with medium confidenceDiagram, engineering drawing

Description automatically generated

"diagnosis" "radius\_mean" "texture\_mean", "perimeter\_mean" "area\_mean" "smoothness\_mean" "compactness\_mean""concavity\_mean", "concave points\_mean", "symmetry\_mean", "fractal\_dimension\_mean", "radius\_se", "texture\_se" ,"perimeter\_se", "area\_se", "smoothness\_se" ,"compactness\_se" ,"concavity\_se" ,"concave points\_se", "symmetry\_se", "fractal\_dimension\_se" ,"radius\_worst" ,"texture\_worst", "perimeter\_worst" ,"area\_worst" ,"smoothness\_worst", "compactness\_worst", "concavity\_worst", "concave points\_worst" ,"symmetry\_worst" ,"fractal\_dimension\_worst",