**BREAST CANCER PREDICTION**

**ALGORITHM**

START

1 Load Data:

* read the dataset from a CSV file.

2 Prepare Data:

* Select X as (input variables) and the target (output variable)Y.
* Convert the target variable to numeric format.

3 Split Data:

* Divide the data into training and testing sets.

4 Train Model:

* Create and train a Random Forest Classifier using the training data.

5 Predict and Evaluate:

* Make predictions on the testing data.
* Evaluate the performance with accuracy and classification report.

6 Feature Importance:

* Determine which features are most important for the predictions.

7 Identify Malignant Cases:

* Find and display the cases predicted as malignant.

STOP

**FLOW CHART**

**START**

**Load the data**

**Select Features (X) Select Target (y) Encode TargeT(y\_encoded)**

**Split the data**

**Training the model**

**Fit Model on Training Data**

**Make a prediction and evaluate the accuracy**

**Feature importance**

**Create and Plot Feature Importance DataFrame**

**Identify Malignant Cases**

**Find Malignant Predictions in Test Set Display Malignant Cases**

**END**