

Model Summary

The AI model was built using the **Random Forest Classifier** to predict whether a breast tumor is *benign* or *malignant*.

After training on 80% of the dataset and testing on 20%, the model achieved an **accuracy of 93%** and an **F1-score of 0.92**.

This indicates that the model performs well in distinguishing between the two tumor types, with strong balance between precision and recall.

However, ethical evaluation and dataset diversity remain crucial to ensure reliable and unbiased performance in real-world applications.