**✨ English Version (Description):**

This project aims to **classify breast tumors** into two main categories:

* **Benign**
* **Malignant**

It is based on the **Breast Cancer Dataset** provided by **Scikit-learn**, which contains 569 samples and 30 statistical features describing cell characteristics (e.g., radius, texture, perimeter).

The project implements the **Naive Bayes (GaussianNB)** algorithm, a simple yet powerful machine learning model based on **Bayes’ Theorem**, assuming feature independence. This algorithm was chosen because it is fast to train and often achieves good performance with medical datasets.

**Project Workflow:**

1. Load the breast cancer dataset from Scikit-learn.
2. Explore the data (features and target classes).
3. Split the dataset into training (67%) and testing (33%) sets.
4. Train the model using **Gaussian Naive Bayes**.
5. Evaluate the model using the **accuracy score** metric.
6. Test the model on new unseen samples to validate performance.

**Results:**

* The model achieved a good accuracy in predicting tumor types.
* It can classify new samples quickly and reliably.

**Future Improvements:**

* Experiment with other algorithms such as **SVM** or **Random Forest**.
* Apply **feature selection** techniques to enhance performance.
* Extend the project to include larger and more diverse datasets.

This project demonstrates how **machine learning** can contribute to the medical field, particularly in **early cancer diagnosis**, which plays a crucial role in saving lives.