Our goal will be to predict the diagnosis (benign or malignant).

Finding the right parameters (like what C or gamma values to use) is a tricky task, but we can use them with GridSearchCV. The CV stands for cross‑validation.

GridSearchCV takes a dictionary that describes the parameters that should be tried and a model to train

You should add refit=True and choose verbose to whatever number you want. The higher the number, the more verbose.(verbose just means the text output describing the process).

from sklearn.model\_selection import GridSearchCV

grid = GridSearchCV(SVC(),param\_grid,refit=True,verbose=3)

**Note: This process may take a while. The more parameters we test, the longer it may take since it has to try all different combinations in order to find the best set.**

You can inspect the best parameters found by GridSearchCV using the best prams attribute, and the best estimator using the best\_estimator\_ attribute. Here we see that the best set of parameters from the ones we specified are 10 for c value, 0.01 for gamma, and 'rbf' for the kernel.