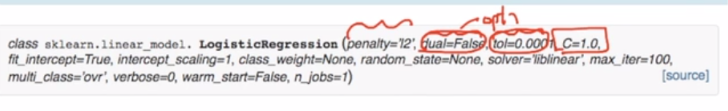
**Logistic Regression:**



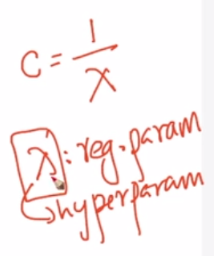
**Penalty**: which regularization to be performed l1 or l2.

**Dual, tol**: is used in optimization

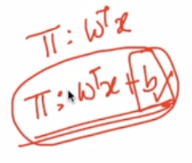
**C** = 1/lambda used in regularization. Therefore since C is inverse of lambda and as:

If lambda increases model gets underfit, and if decreases model gets overfit.

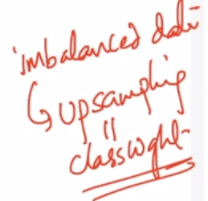
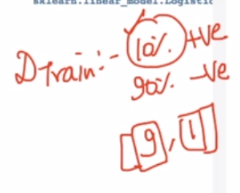
Therfore if As C increases it should Overfit and as C decreases , it should underfit.



**Fit\_intercept**: specifies whether to use interceptor (b) or not in plane eq.

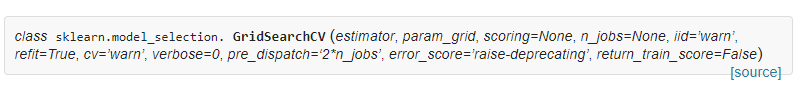


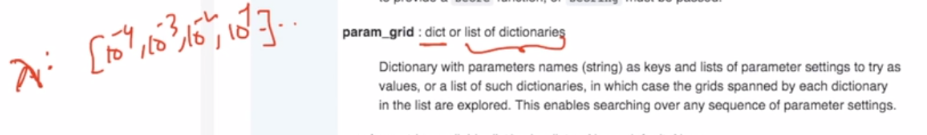
**Class\_weight:** It’s used for upsampling for imbalanced data.

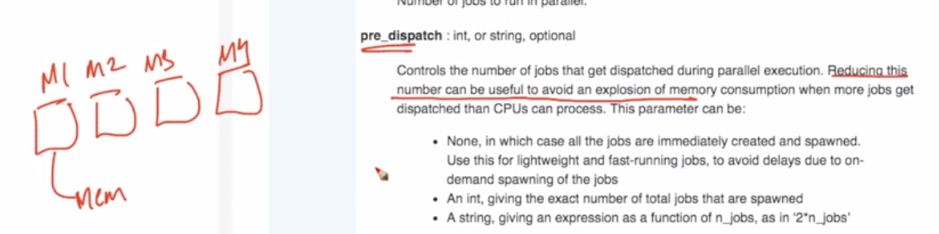
**Multi\_class:** it’s to specify if there are more than 2 class labels to be predict.

**GridSearchCV:**



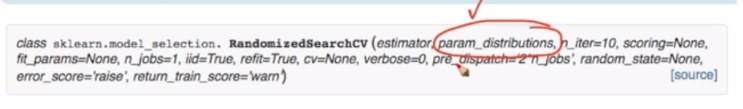


If we are executing models parallel then we may encounter memory error problem, therefore we use pre\_dispatch to controls the no. of jobs to be dispatched during parallel execution.

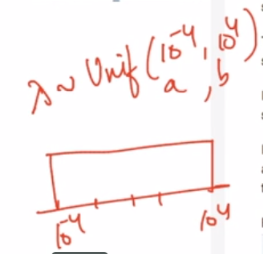


**Error\_score:** specify which metri to use: accuracy, f1 score etc.

**RandomizedSearchCV:**

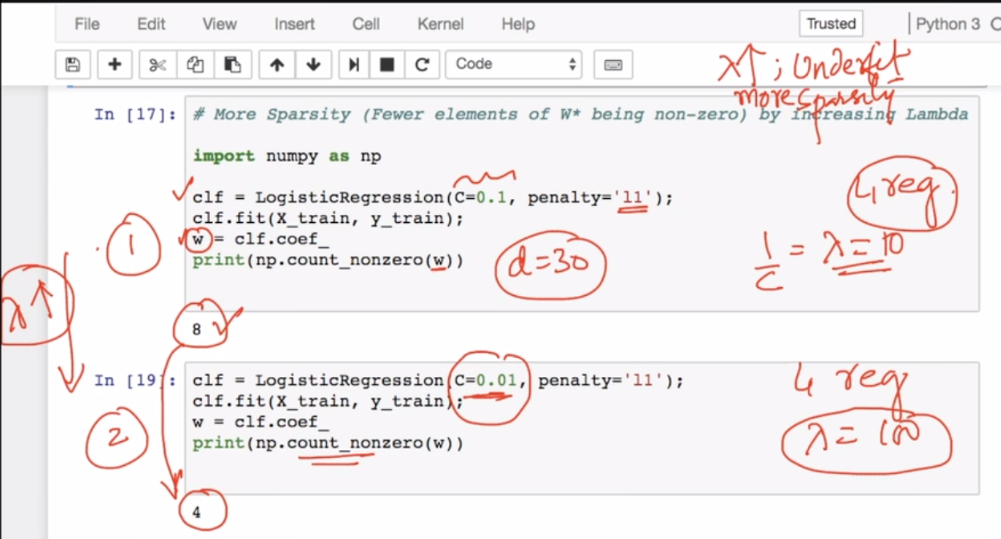


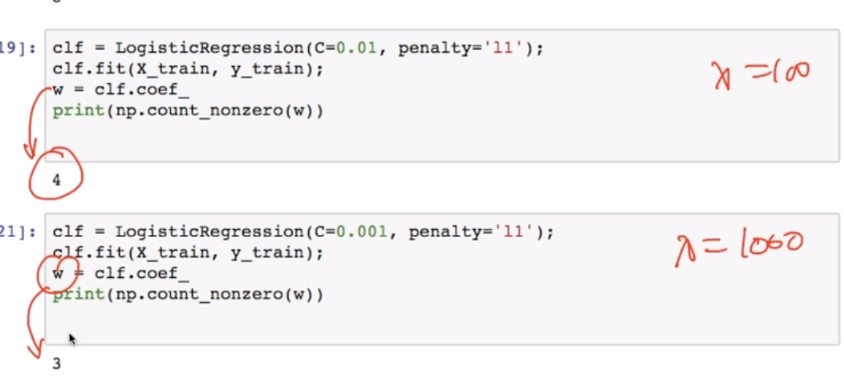
RandomizedSearchCV is similar to GridSearchCV except param\_distributions parameter, which expect distribution in which hyperparameter belongs example whether hyperparameter belongs to uniform distribution.

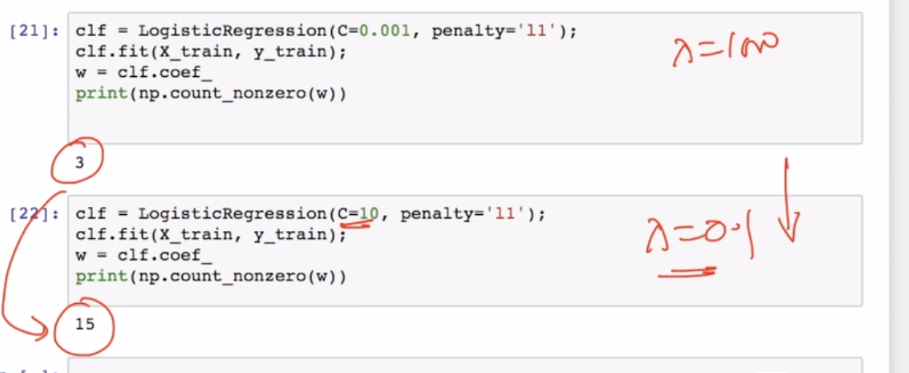




We know that as we increase lambda sparsity of w increases means number of non\_zerof will decrease. Below images show example.







Comments:

