

logistic_regression_hyperparameterter

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```
In [1]: import numpy
        X = numpy.loadtxt("./data/Train/X_train.txt")
        y = numpy.loadtxt("./data/Train/y_train.txt")
```

```
In [2]: from models import logistic_regression
        best_model = logistic_regression.find_hyperparameter(X,y)
```

```
cross validation scores of best model are : [0.957638  0.9562982  0.96332046 0.9729207  0.9683
mean of cross validation scores of best model is: 0.9637047221644268
```

```
In [4]: best_model.get_params()
```

```
Out[4]: {'C': inf,
         'class_weight': None,
         'dual': False,
         'fit_intercept': True,
         'intercept_scaling': 1,
         'max_iter': 100,
         'multi_class': 'multinomial',
         'n_jobs': None,
         'penalty': 'l2',
         'random_state': None,
         'solver': 'newton-cg',
         'tol': 0.0001,
         'verbose': 0,
         'warm_start': False}
```