

EE5112 Project1 Report Group7

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1 Task 0. Recognize Facial Expressions

In this task, we built a linear logistic regression classification model, and used this model to predict the test set. Here are some key parts of the code. As requirement, we defined the Logistic Regression model with solver='sag':

```
model = linear_model.LogisticRegression(solver='sag')
model.fit(x, y)
y_test_pred = model.predict(np.vstack(dfTest['pixels'].values))
```

After training finished, there will have a warning:

```
ConvergenceWarning: The max_iter was reached which means the coef_ did not converge
```

The first time we met this error, we tried to increase the \max_{iter} to 1000, but we still got this result. By searching Internet, we realized