

**The Experiment Report of**

***Machine Learning***

**College Software College**

**Subject Software Engineering**

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**Date submitted** **2017. 12 . 14**

1. **Topic:**

**Logistic Regression, Linear Classification and Stochastic Gradient Descent.**

**2. Time:**

**3. Reporter:**

**4. Purposes:**

**5. Data sets and data analysis:**

**6. Experimental steps:**

**7. Code:**

(Fill in the contents of 8-11 respectively for logistic regression and linear classification)

**8. The initialization method of model parameters:**

**9. The selected loss function and its derivatives:**

**10. Experimental results and curve:**(Fill in this content for various methods of gradient descent respectively)

## Hyper-parameter selection:

## Predicted Results (Best Results):

## Loss curve:

**11. Results analysis:**

**12. Similarities and differences between logistic regression and linear classification：**

**13. Summary:**