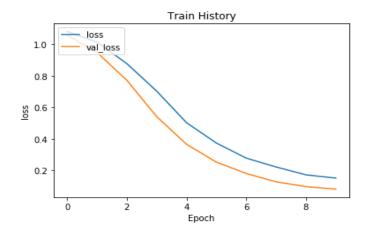
## 《Using Neural Network to predict Iris Data》

```
sepal_length
             sepal_width
                      petal_length
                                petal_width
                                           species
0
          5.1
                   3.5
                             1.4
                                      0.2
                                           setosa
1
          4.9
                   3.0
                             1.4
                                      0.2
                                           setosa
2
          4.7
                             1.3
                   3.2
                                      0.2
                                            setosa
3
          4.6
                   3.1
                             1.5
                                      0.2
                                            setosa
4
          5.0
                   3.6
                             1.4
                                      0.2
                                            setosa
Using TensorFlow backend.
                 Output Shape
Layer (type)
                                  Param #
_____
                  (None, 1000)
                                  5000
dense_1 (Dense)
dense_2 (Dense)
                  (None, 500)
                                  500500
dense_3 (Dense)
                  (None, 300)
                                  150300
dropout 1 (Dropout)
                  (None, 300)
dense_4 (Dense)
                  (None, 3)
                                  903
______
Total params: 656,703
Trainable params: 656,703
Non-trainable params: 0
Train on 120 samples, validate on 30 samples
val loss: 1.0584 - val acc: 0.2667
Epoch 2/10
val_loss: 0.9482 - val_acc: 0.7667
Epoch 3/10
val_loss: 0.7711 - val_acc: 0.7333
Epoch 8/10
val_loss: 0.1261 - val_acc: 1.0000
Epoch 9/10
val_loss: 0.0963 - val_acc: 1.0000
Epoch 10/10
```



val loss: 0.0797 - val acc: 1.0000

Accuracy of the dataset 100.0

From the figure on the left side, the more the number of epoch, the less the loss costs.