Machine Learning: Project 2

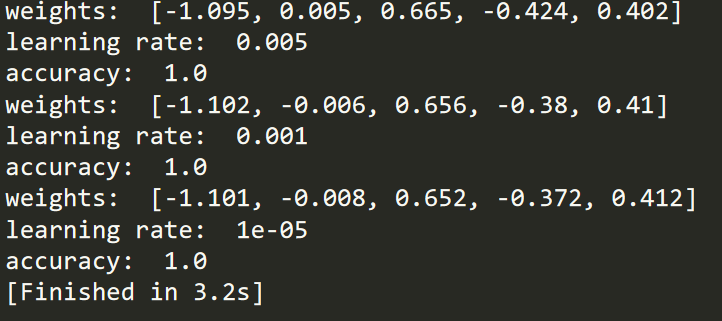
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Head:

Python: pandas and matplotlib modules for visualization

Sublime text 3

1. When the learning rate increases from 0.00005 to 0.001 and to 0.005, the accuracy doesn’t change, but the time of training epochs is getting bigger, and some weights are slightly changed.



A screenshot of a cell phone

Description automatically generated

1. It does converge otherwise it will never stop iteration to get

A close up of a map

Description automatically generated

1. When I use wights[-1,0,0.5,-0.5,0.5] as final weights to execute activation function, the confidence is 83%.

The red points below are misclassification points.

A screenshot of a cell phone

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1. Yes, it is linearly separable.

A screenshot of a cell phone

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I create this plot by summing up the length and width of sepal and petal, because all four parameters affect the result.

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