

A screenshot of a computer program

Description automatically generated

A mathematical symbols and symbols

Description automatically generated with medium confidenceA screenshot of a computer

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先建立了Forward Propagation推导出Y\_hat后，再建立起Cost Function，Y\_hat和Y的差异。

目标是解Loss Function导函数为0找到最小值。

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A mathematical equations with numbers

Description automatically generated with medium confidenceLoss Function是关于L （w，b），两个未知数w和b，要求Gradient

求Gradient采取的是Backforward Propagation公式

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A red rectangles on a white background

Description automatically generated利用求出的Gradient来更新w，w，b梯度下降找到目标点

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A screen shot of a graph

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A white sheet with black text

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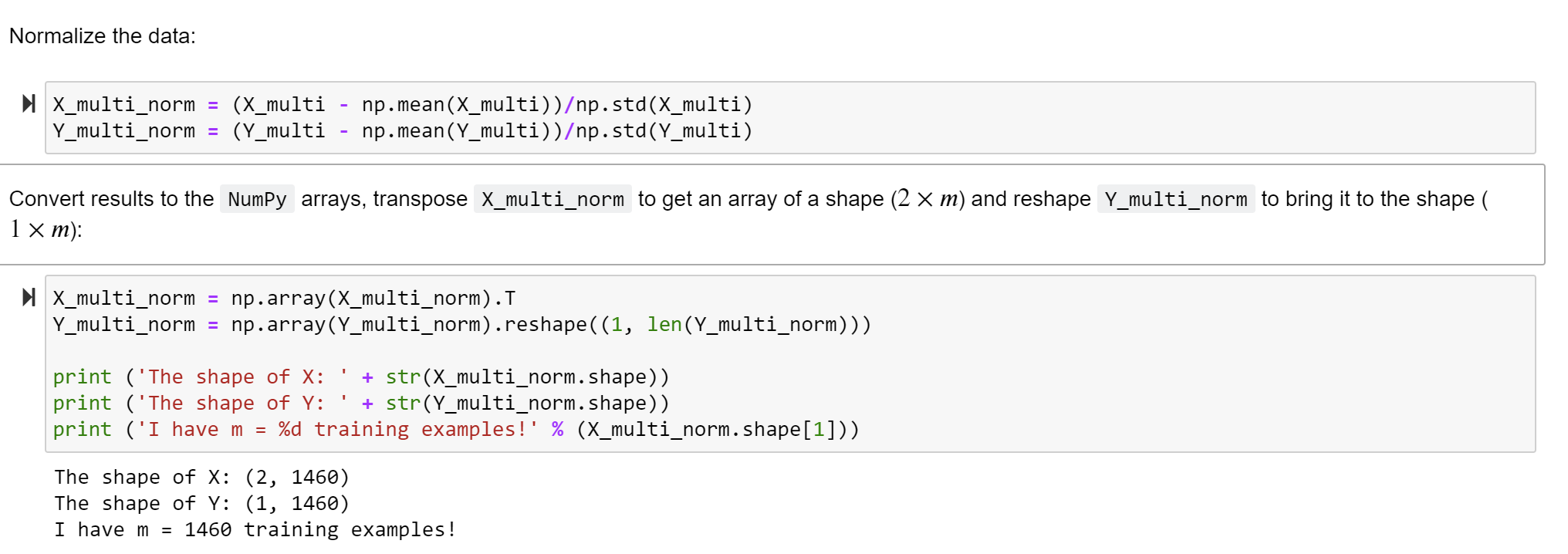
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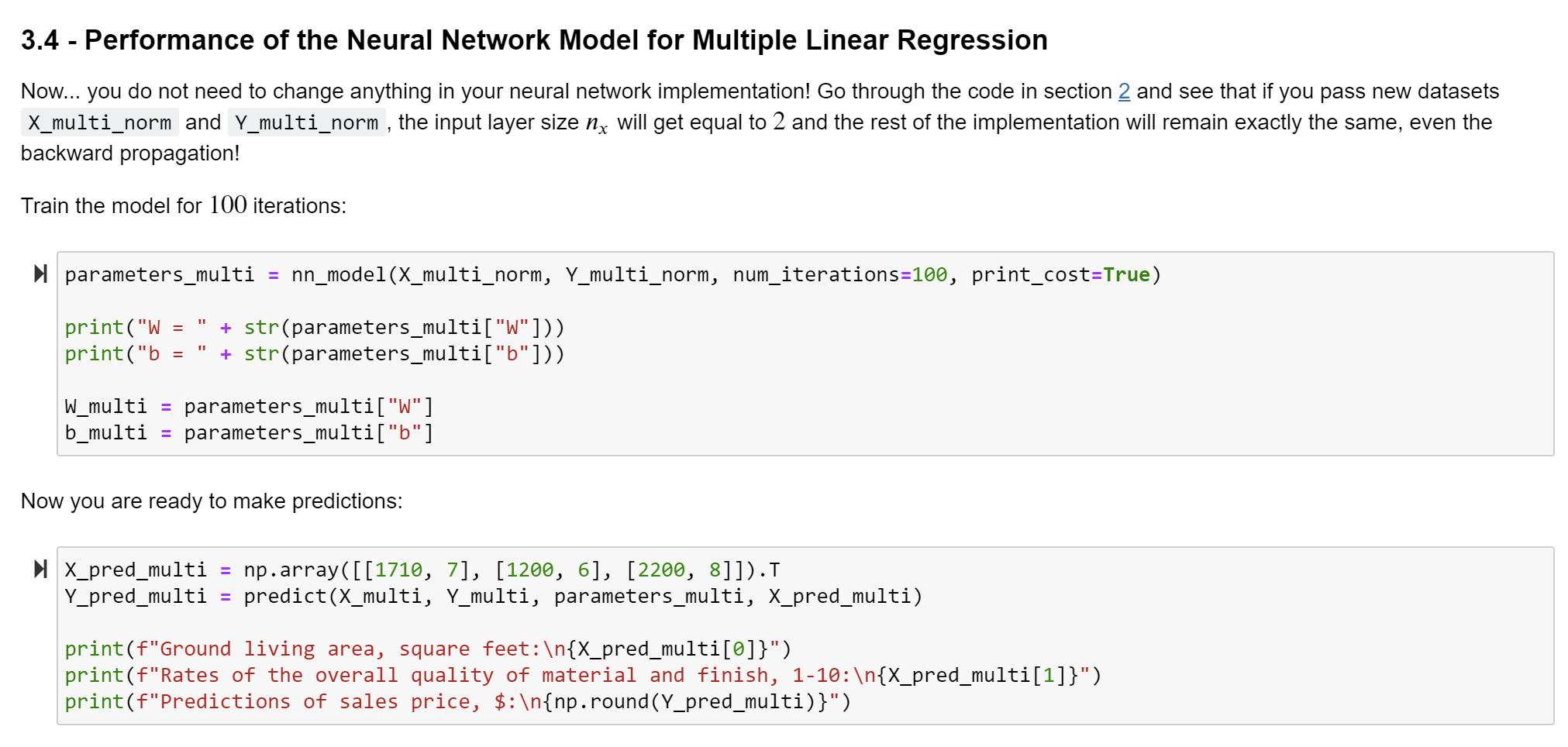
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以上是Regression Model with OLS Cost Function

接下来是Classification Model{exp()activate function} with LogLoss Cost Function

代码上的修改：

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A white background with black dots

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整合Forward 从Forward——Gradient Dersent叫 Loop

Cost Function

Backward

Gradient Desent

建立 Neural Network Model “nn\_model()”

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最优化Cost，以至于然后可以开始Predicate Y

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