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| 屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 |  |
| **L02:Linear regression with 1 variable** | 屏幕剪辑 |
| Cost function  屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | **Gradient descent**  屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | Learning rate  屏幕剪辑 |
| 屏幕剪辑  Update simultaneously | 屏幕剪辑 |
| **L03:Linear algebra review**   * Matrices and vectors   屏幕剪辑   * Matrix addition/Scalar multiplication | Matrix-vector multiplication  屏幕剪辑 |
| Matrix-matrix multiplication  屏幕剪辑 | Matrix multiplication properties  屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
| Inverse and transpose  屏幕剪辑 | 屏幕剪辑 |
| **L04:Linear regression with multiple variables**  屏幕剪辑 | **Gradient descent**  屏幕剪辑 |
| 屏幕剪辑  Get every feature into approximately [-1,1] | 屏幕剪辑 |
| Learning rate  屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑  To choose , try  0.001,0.003,0.01,0.03,0.1,0.3,1,….. | Features and polynomial regression  屏幕剪辑 |
| Normal equation:  Method to solve for analytically  屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | Normal equation and non-invertibility  屏幕剪辑 |
| 屏幕剪辑 |  |
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| **L06: Logistic regression**  屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
| Decision boundary  屏幕剪辑 | 屏幕剪辑 |
| Cost function  屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | Advanced optimization  屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
| Multi-class classification: one-vs-all  屏幕剪辑 | 屏幕剪辑 |
| **L07: Regularization**  屏幕剪辑 | 屏幕剪辑 |
| Cost function  屏幕剪辑 | Regularized linear regression  屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
| Regularized logistic regression  屏幕剪辑  屏幕剪辑 | 屏幕剪辑 |
| **L08: Neural networks**  屏幕剪辑 | 屏幕剪辑 |
| 屏幕剪辑 | 屏幕剪辑 |
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| 屏幕剪辑 | 屏幕剪辑 |
| Muti-class classification  屏幕剪辑 |  |
| **L09: Neural networks**  屏幕剪辑 | 屏幕剪辑 |
| Backpropagation algorithm  屏幕剪辑 | 屏幕剪辑 |
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