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Neural Networks and Deep Learning > Week 2 > Clarification about Upcoming Gradient Descent Video

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Logistic Regression as a

- Video: Binary Classification
- Video: Logistic Regression
- **Reading:** Clarification about Upcoming Logistic Regression Cost Function Video 1 min
- ✔ Video: Logistic Regression Cost Function
- Reading: Clarification about Upcoming Gradient Descent
- Video: Gradient Descent
- Video: Derivatives lacksquare
- Video: More Derivative 10 min
- Video: Computation graph
- Video: Derivatives with a Computation Graph 14 min

6 min

- Video: Gradient Descent on m Examples 8 min
- Reading: Derivation of DL/dz (optional reading)

Python and Vectorization

- Video: Vectorization
- Video: More Vectorization Examples
- Reading: Clarification of 10 min
- Video: Vectorizing Logistic Regression
- Video: Vectorizing Logistic Regression's Gradient Output
- ▶ Video: Broadcasting in Python
- Video: A note on python/numpy vectors
- Video: Quick tour of Jupyter/iPython Notebooks
- ▶ Video: Explanation of logistic regression cost function (optional)

Practice Questions

Programming Assignments

Heroes of Deep Learning (Optional)

Please note that in the next video at the second slide, there is a missing parenthesis.

The negative sign should apply to the entire cost function (both terms in the summation).

$$J(w,b) = rac{1}{m} \sum_{i=1}^m L(yhat^{(i)},y^{(i)}) = -rac{1}{m} \sum_{i=1}^m \left(y^{(i)}logyhat^{(i)} + (1-y^{(i)})log(1-yhat^{(i)})
ight)$$

✓ Complete Go to next item



