MACHINE/ DEEP LEARNING

BASIC

Sung Kim <hunkim+ml@gmail.com> http://hunkim.github.io/ml

with TensorFlow (Python)

NAVER | Clova







We have superpowers



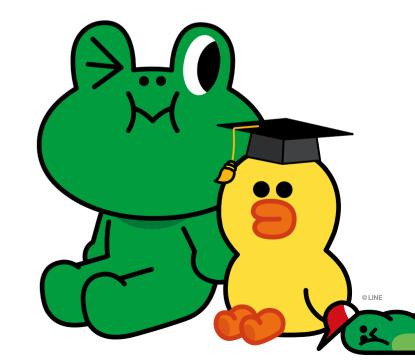




Andrew Ng

Audience

- 01. Want to Understand Basic Machine Learning (ML)
- 02. No/Weak Math/Computer Science Backgroundy=Wx+b (y=ax+b)
- 03. Want to Use ML as Black-box with Basic Understanding
- 04. Want to Use Tensorflow and Python (Optional)



Goals

- 01. Basic Understanding of Machine Learning Algorithm
 - · Linear regression, Logistic regression (classif ication)
 - Neural networks, Convolutional Neural Network,
 Recurrent Neural Network
- 02. Solve Your Problems Using Machine Learning Tools
 - · Tensorflow and Python

Course Structure

- · About 10min Lecture
- · Programming Tutorial Using Tensorflow

Acknowledgement

- 01. Acknowledgement
 - · https://class.coursera.org/ml-003/lecture
 - http://www.holehouse.org/mlclass(note)
- 02. Convolutional Neural Networks for Visual Recognition
 - · http://cs231n.github.io
- 03. TensorFlow
 - · https://www.tensorflow.org
 - · https://github.com/aymericdamien/TensorFlow-Examples

Schedule

- 01. Machine Learning Basic Concepts
- 02. Linear Regression
- 03. Logistic Regression (Classification)
- 04. Multivariable (Vector) Linear/Logistic Regression
- 05. Neural Networks
- 06. Deep Learning
 - · CNN
 - · RNN
 - · Bidirectional Neural Networks

NEXT LECTURE

ML BASIC CONCEPTS