Machine Learning

Marchelo Bragagnini

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Versión 1.0

	Tema	
Probabilistic Graphical Models & Classifiers	Naive Bayes & Redes bayesianas	
	Hidden Markov Models	
	Conditional Random Fields	
	PCA & Support Vector Machine	
	Random forest & gradient boosting	
Deep Learning	Introduction to neural networks:shallow & deep networks	
	Logistic regression & Gradient Descent	
	Computing a Neural Network's Output & vectorized implementation & Softmax regression	
	Non linear activation functions & gradient descent for Neural Networks	
	Backpropagation intuition & Random Initialization	
	Why deep representations ? & Forward Propagation in a Deep Network	
	Forward and Backward Propagation & Parameters vs Hyperparameters	
	Regularization techniques & Weight Initialization & Gradient Checking	
	Mini-batch gradient descent & Optimization algorithms	
	Human-level performance & Transfer Learning & Multi-task learning	
	Convolutional neural networks	
	Face recognition example	
	Yolo algorithm & Neural Style Transfer	
	Sequence models & Recurrent Neural Networks & BPTT	
	GRU & LSTM & BiLSTM & Stack RNN	
	Word Embeddings: word2vec, fasttext, glove	
	Sequences to sequences & attention mechanism	
	Machine translation	

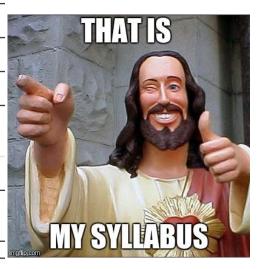
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Too much!!!

Versión 2.0

Grupo	Tema	Sesion
	Naive Bayes	1
Drahahilistia Crashiaal Madala	Bayes Classifier	1
Probabilistic Graphical Models	Hidden Markov Models	2
	Conditional Random Fields	2
1 :c T	Decission Trees	
classifiers Trees	Random Forest	3
L	SVM	
kernels	SVM regression	4
B	Gradient Boosting	-
Boosting	XGBoost	5
I	K-means	
k - algorithms	K- NN	6
	Gaussian Process	
Model process	Dirichlet Process	7
	Linear Regression	
nonparametric model & sampling method	Multiple Regression	8
sampling metrod	Markov chain monte carlo	
	reinforcement learning	
off topics	minimax theory	9
	Gradient Descent	
	Logistic regression	10
	MLP	
Neural Networks	CNN	11
Neurai Networks	RNN, GRU, LSTM	10
	Sequence models	12
	Autoencoders	40
	GAN	13
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