Google Cloud

Launching into Machine Learning

Readings and Videos

Module 2: Improve Data Quality and Exploratory Data Analysis	
	How to Handle Missing Data in Machine Learning
	Guide to Data Quality Management
	Exploratory Data Analysis With Python
	How to investigate a dataset with python?
Module 3: Practical ML	
	Supervised and Unsupervised Machine Learning Algorithms
	Supervised Learning
	What the Hell is Perceptron?
	What is Perceptron: A Beginners Tutorial for Perceptron
	Perceptrons and Multi-Layer Perceptrons: The Artificial Neuron at the Core of Deep Learning
	Perceptrons
	Understanding the perceptron neuron model
	Machine Learning for Beginners: An Introduction to Neural Networks
	What is a Neural Network?
	Neural Networks and Deep Learning
	Decision Trees and Random Forests

	Decision Tree vs. Random Forest – Which Algorithm Should you Use?
	Decision Tree and Random Forest
	Random Forest
	Kernel Methods
	Kernel Methods
	Modern Neural Networks Generalize on Small Data Sets
	Neural Network Architectures for Machine Learning Researchers
Module 4: Optimization	
	Introduction to Linear Models
	Linear Models
	How to Choose a Machine Learning Model – Some Guidelines
	How to Choose Loss Functions When Training Deep Learning Neural Networks
	4 COMMON PITFALLS IN PUTTING A MACHINE LEARNING MODEL IN PRODUCTION
	Common ML Problems
	Performance Metric
	Understanding Confusion Matrix
Module 5: Generalization and Sampling	
	When to stop Training your Neural Network?
	Generalization, Regularization, Overfitting, Bias and Variance in Machine Learning