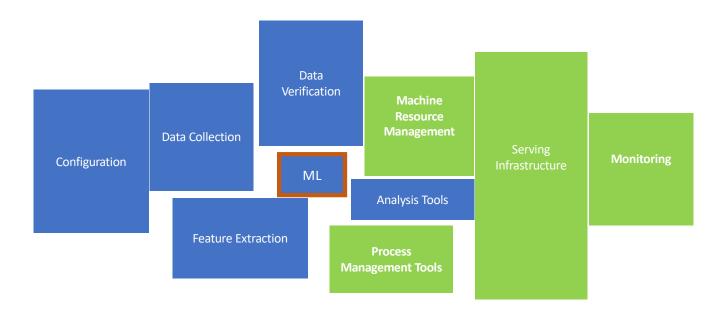
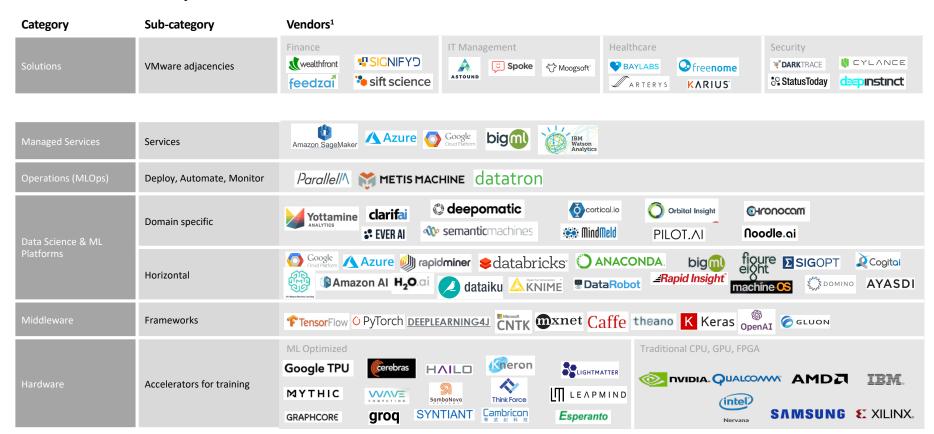


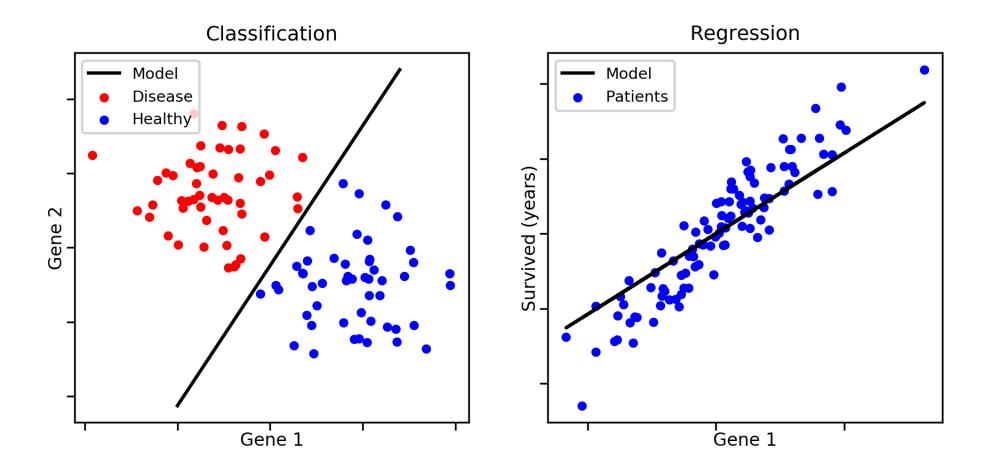
Definition



Source: Hidden Technical Debt in Machine Learning Systems, Scully, D., et al (Google)

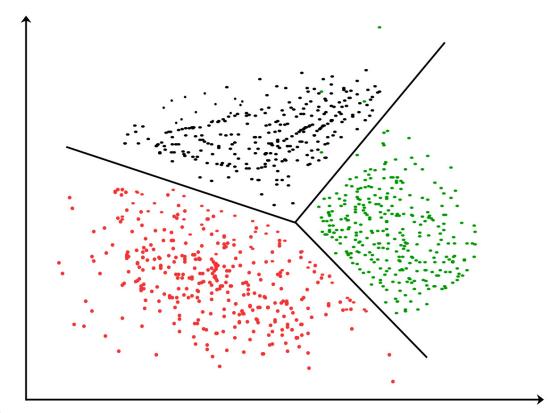
Landscape



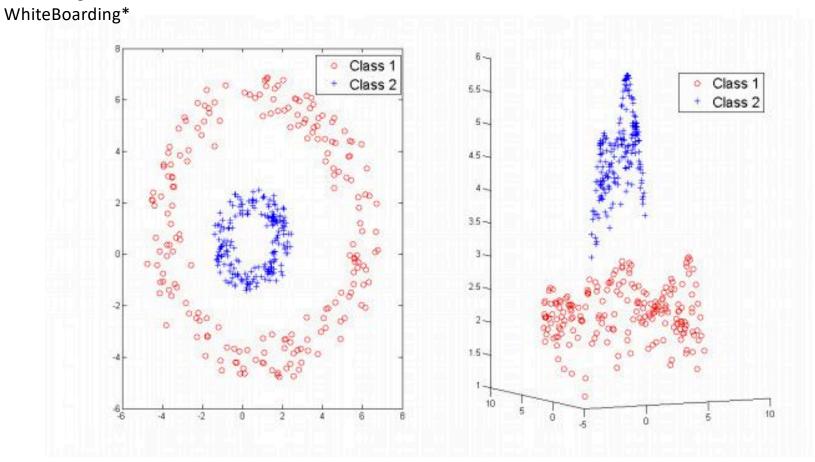


©2018 VMware, Inc.

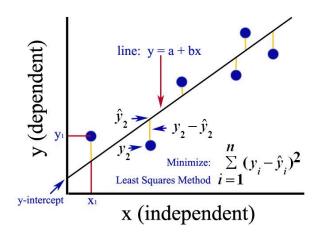
$$rg\min_{\mathbf{S}} \sum_{i=1}^k \sum_{\mathbf{x} \in S_i} \|\mathbf{x} - oldsymbol{\mu}_i\|^2 = rg\min_{\mathbf{S}} \sum_{i=1}^k |S_i| \operatorname{Var} S_i$$



SVM using Gaussian Kernel



$$ext{MSE} = rac{1}{n} \sum_{i=1}^n (Y_i - \hat{Y_i})^2.$$

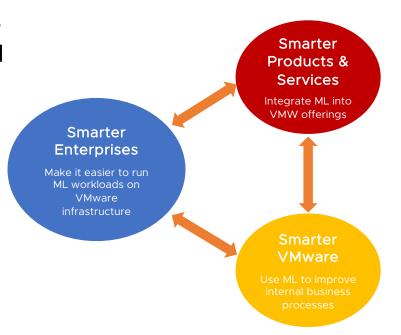


Linear Regression

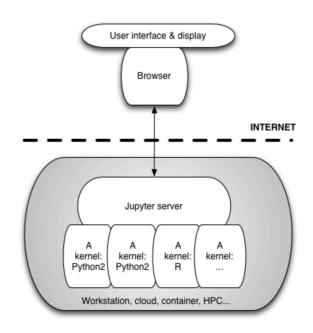


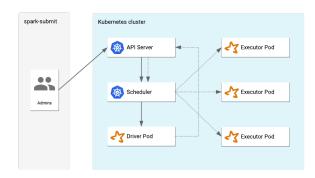
VMware Perspective

- VMware invests in use of ML in three broad areas
 - Enabling customers to provision, manage, and monitor agile IT infrastructure to support all their ML requirements
 - Incorporating ML techniques into VMware products and services to enhance automation and predictive analytics at scale
 - Using a broad array of ML techniques internally to increase operational efficiency
- VMware also advances the state of the art in analytics and ML through a variety internal research projects, and through support and collaboration with top academic research teams















Stocks value VMW Prediction

Raymundo Escobar



¿Cual es la prediccion de valor del stock en el futuro?

Especificamente para el codigo VMW

Α	В	С	D	E	F	G	Н
ate	symbol	volume	open	close	high	low	adjclos
3/1/19	Α	1625900	80	81.2399979	81.4400024	80	81.23999
2/28/19	Α	1759100	79.1800003	79.4400024	79.75	78.8899994	79.44000
2/27/19	Α	1254400	78.25	79.4199982	79.5500031	78.25	79.41999
2/26/19	Α	1992600	79.2099991	78.5500031	79.2699966	78.4199982	78.55000
2/25/19	Α	1878000	78.9000015	79.3399963	79.8399963	78.8499985	79.33999
2/22/19	Α	2797700	78.1600037	78.4199982	78.4599991	77.8300018	78.41999
2/21/19	Α	3570800	77.6699982	77.8899994	78.5800018	76.5	77.88999
2/20/19	Α	2076500	77.5299988	78.5599976	78.8000031	77.3300018	78.55999
2/19/19	Α	2968000	78	77.5199966	78.3199997	77.4100037	77.51999
2/15/19	Α	1919700	77.6299973	78.3000031	78.3099976	77.4700012	78.30000
2/14/19	Α	1618100	77	77.0199966	77.2799988	76.5199966	77.01999
2/13/19	Α	1376400	77.3700027	77.25	77.4899979	76.7399979	77.
2/12/19	Α	2045500	76.8000031	77.0699997	77.25	76.4300003	77.06999
2/11/19	Α	1018000	76	76.0800018	76.3899994	75.75	76.08000
2/8/19	Α	1318100	75.0699997	75.8000031	75.8099976	74.7600021	75.80000

Dataset

- 21 years (1995-2015) of S&P 500 Stock Index data at a monthly frequency (a total of 252 observations) from Yahoo Finance
- Focus on **VMW** stocks from 2, 3, 5, 10 years?

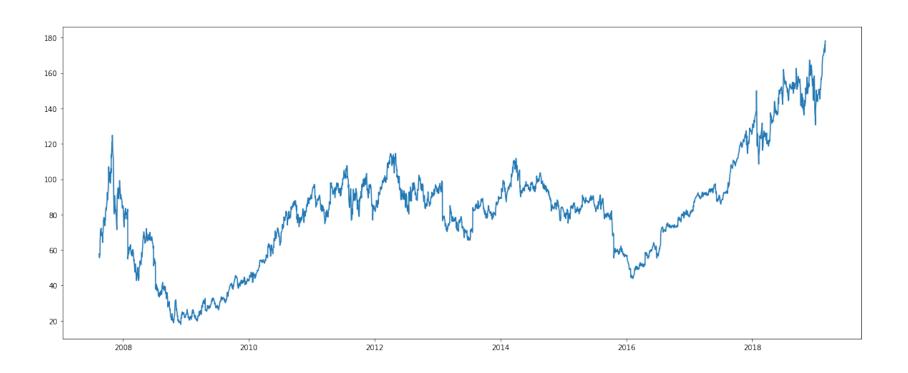
CATEGORIAS

- date year-month-day, 2018-08-08
- **volume** int, volume of the day
- open float, opening price of the day
- close float, closing price of the day
- high float, highest price of the day
- low float, lowest price of the day
- adjclose float, adjusted closing price of the day

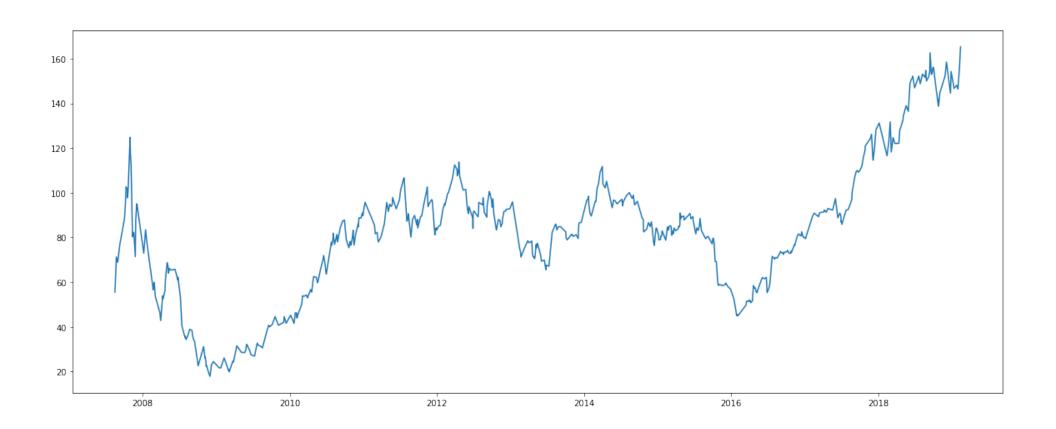
Cuando sepa la tendencia podria predecir cuando vender mas caros los restricted stocks!

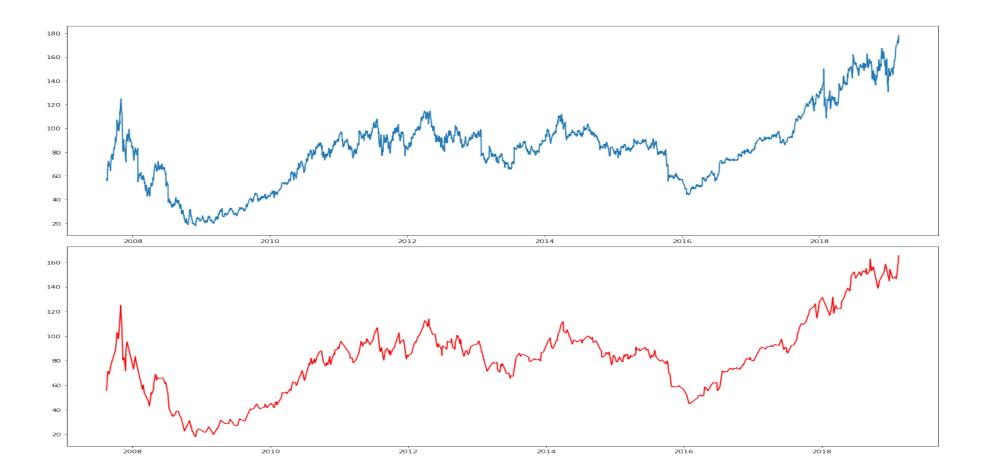


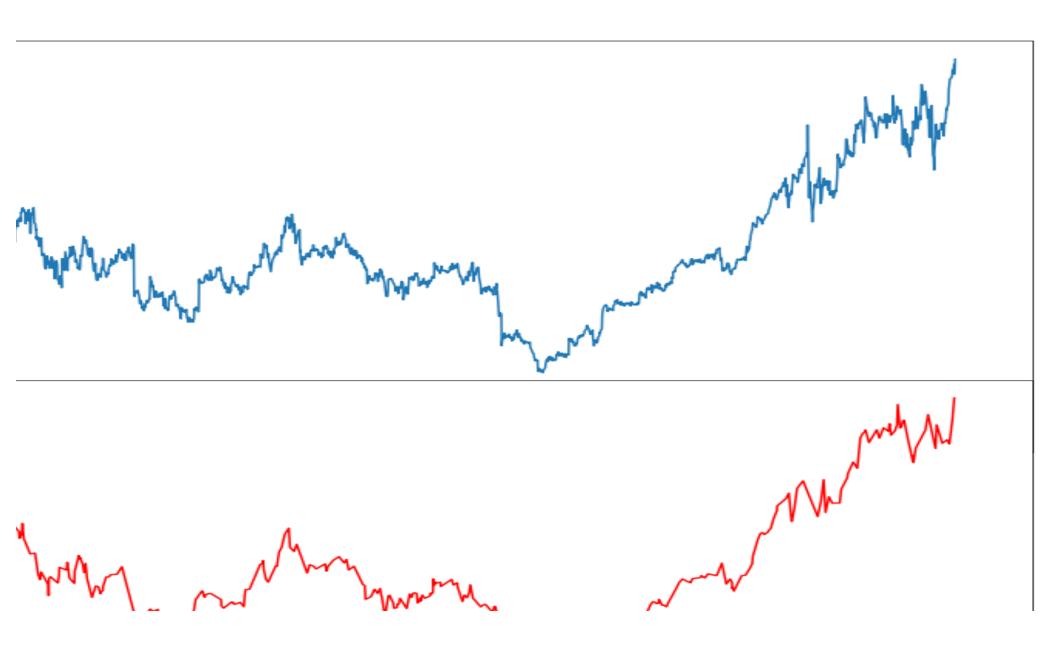
Hitorico de Precios de VMW

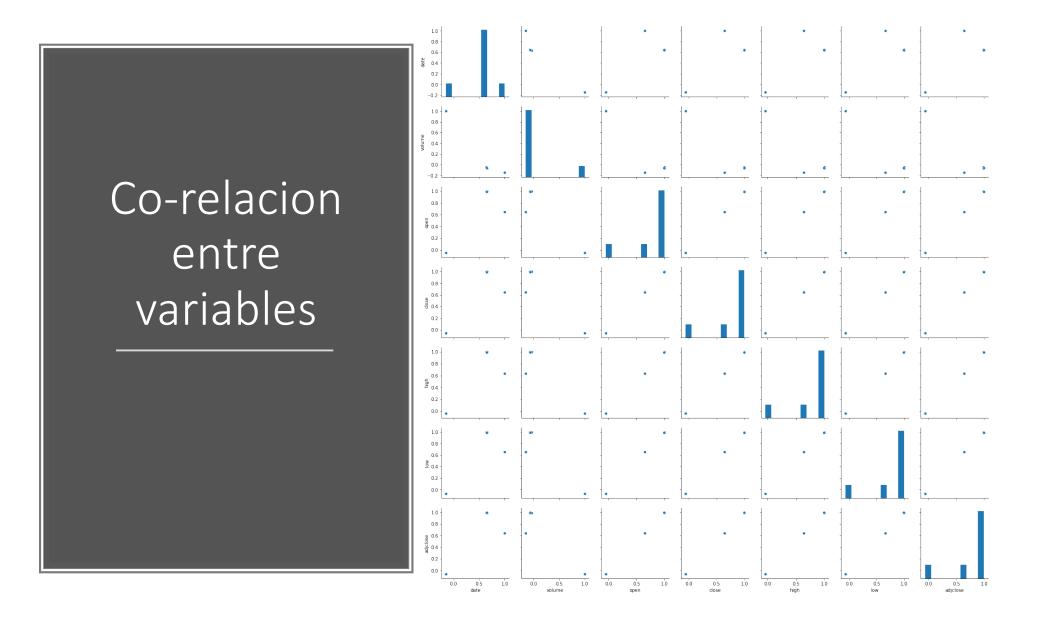


Precios Pedichos

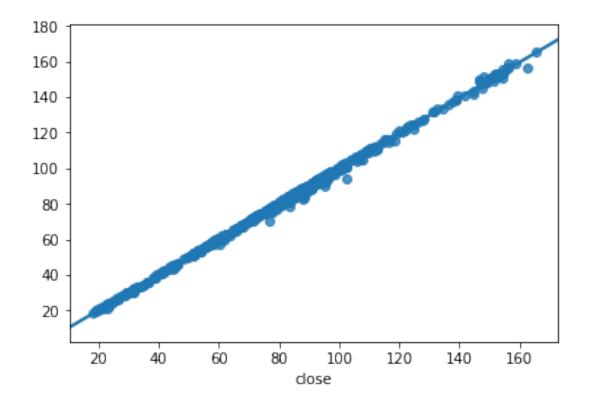








Valores del historico VS. Valores de la prediccion en Regrsion Lineal como Modelo.



FIN

