Time Complexity of 10 Most Popular blog. Daily Dose of D.S. com



n: samples m: dimensions n _{epoch} : epochs c: classes d _{tree} : depth			
	KMeans Clustering	O(iknm)	??
	t-SNE	$O(n^2m)$	_
	Principal Component Analysis (PCA)	$O(nm^2+m^3)$	_
$P(B A) = \frac{P(B \cap A)}{P(A)}$	Naive Bayes	O(nm)	O(mc)
	k-Nearest Neighbors		O(nm)
	Support Vector Machines (SVMs)	$O(n^2m+n^3)$	$O(m \cdot n_{SV})$
	Random Forest Classifier	$O(n_{trees} \cdot n \cdot log(n) \cdot m)$	$O(n_{trees} \cdot \ d_{tree})$
	Decision Tree	$O(n \cdot log(n) \cdot m)$ $O(n^2 \cdot m)^*$ Case	$O(d_{tree})$
*******	Logistic Regression (Multiclass OvR)	$O(n_{epoch}nmc)$	O(mc)
√2000	Logistic Regression (Binary)	$O(n_{epoch}nm)$	O(m)
	Linear Regression (SGD)	$O(n_{epoch}nm)$	O(m)
	Linear Regression (OLS)	$O(nm^2+m^3)$	O(m)
ML Algorithms		Training	Inference

nsv: Support vectors k: clusters i: iterations