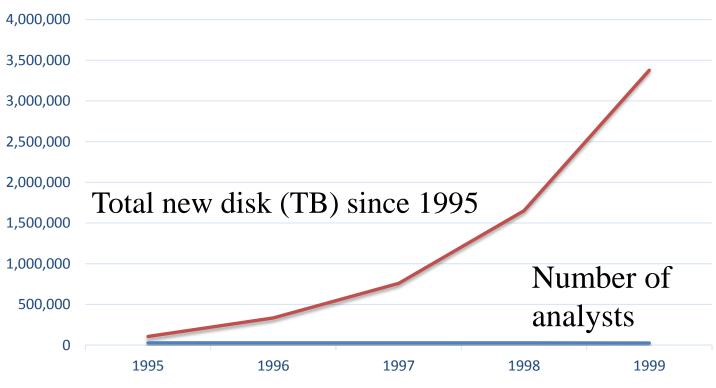
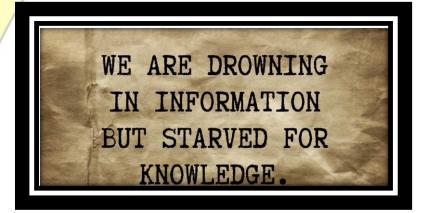


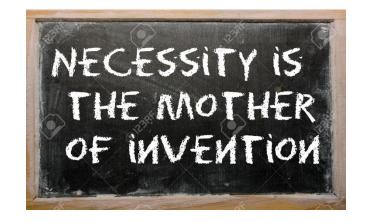
Why Data Mining?





















Data mining

Computer Science
(Artificial Intelligence,
Machine Learning,
Neural Network)

Data Mining

Database Technology

Statistical Analysis



Data mining and Statistical Analysis

High dimensional data

Various types of data

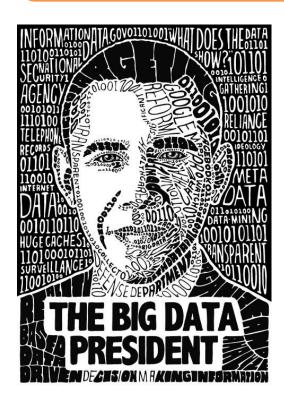
Hypothesis





"The secret of success is to know something that nobody else knows."

Aristotle Onassis





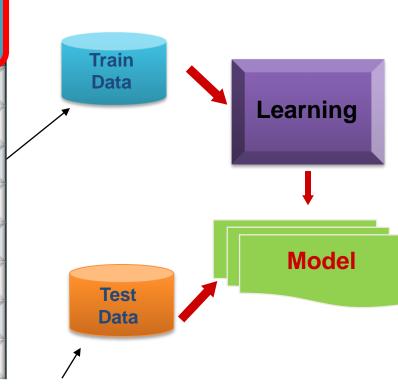


Supervised (Predictive)

Unsupervised (Descriptive)

Supervised

Code	Family history	Age	Wight	Diabetes Status
1	Yes	45	84	Yes
2	Yes	42	73	Yes
3	Yes	27	52	No
4	Yes	32	59	Yes
5	No	4	24	No
6	No	80	68	No
7	Yes	23	48	Yes
8	No	20	15	No





Code	Family history	Age	Wight	Diabetes Status
1	Yes	28	56	Yes
2	No	91	103	Yes
3	Yes	17	58	No

Supervised (Predictive)

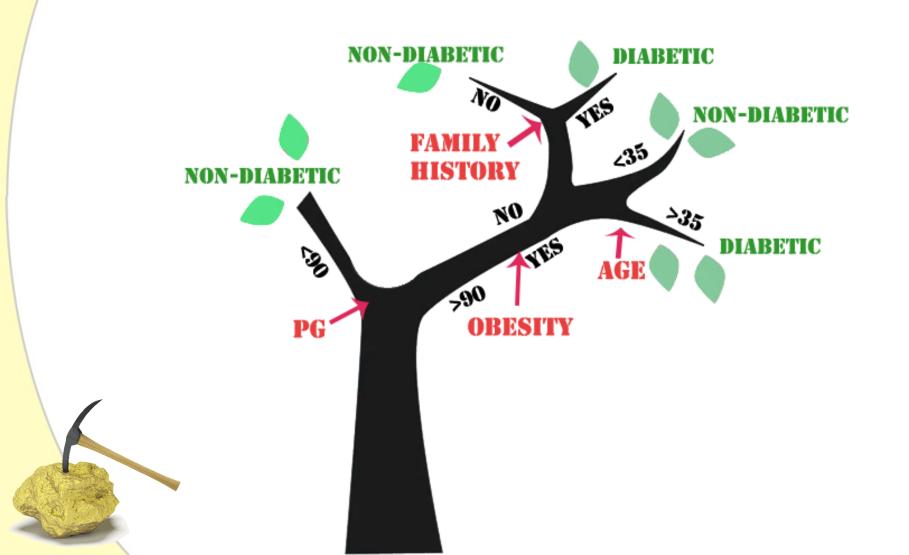
Classification

Regression

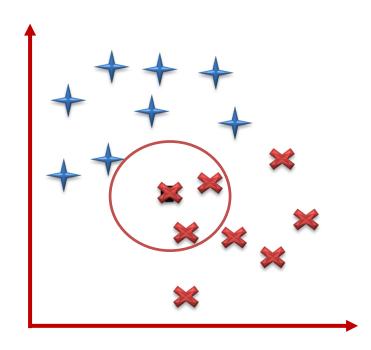
Deviation Detection

Unsupervised (Descriptive)

Decision Tree



Nearest Neighborhood





Un-Supervised

Code	Family history	Age	Wight	Diabete Status Train
1	Yes	45	84	Yes
2	Yes	42	73	Ye
3	Yes	27	52	
4	Yes	32	59) es
5	No	4	24	Nd
6	No	80	68	No
7	Yes	23	48	Yes
8	No	20	15	No



Code	Family Sistory	Age	Wight	Dichetes Status
1	Yes	70	56	Yes
2	No	91	103	Yes
3	Yes	17	58	No

Supervised (Predictive)

Unsupervised (Descriptive) Clustering

Association Rule Discovery

Sequential Pattern Discovery

Clustering

