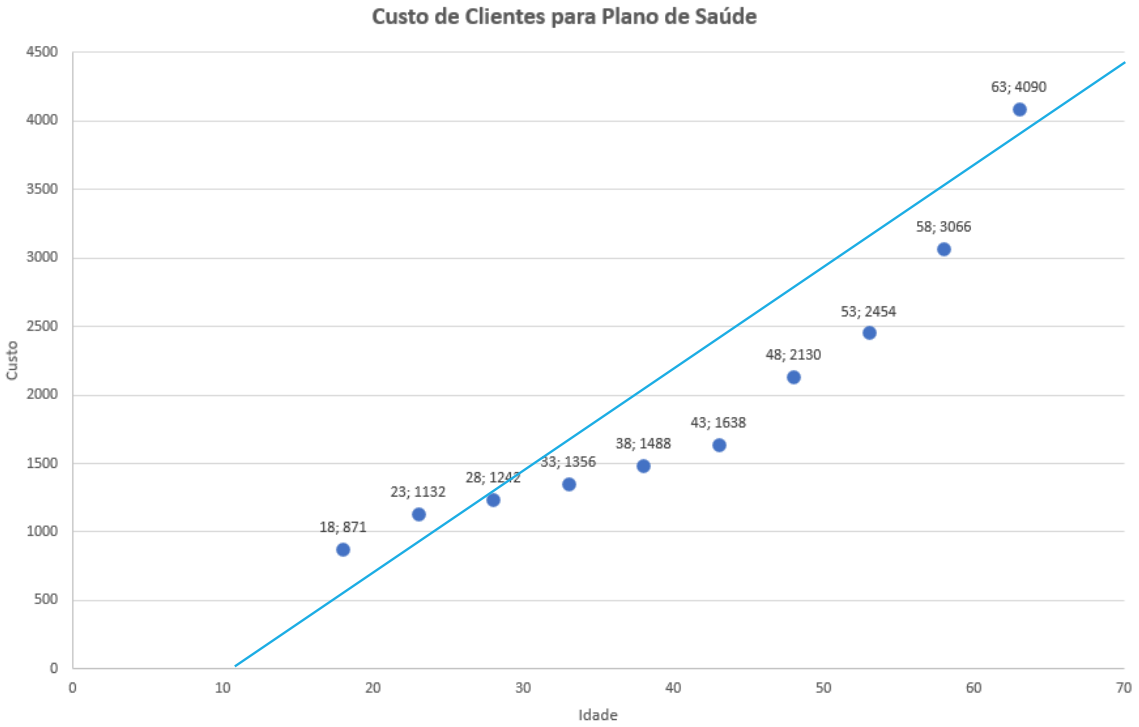
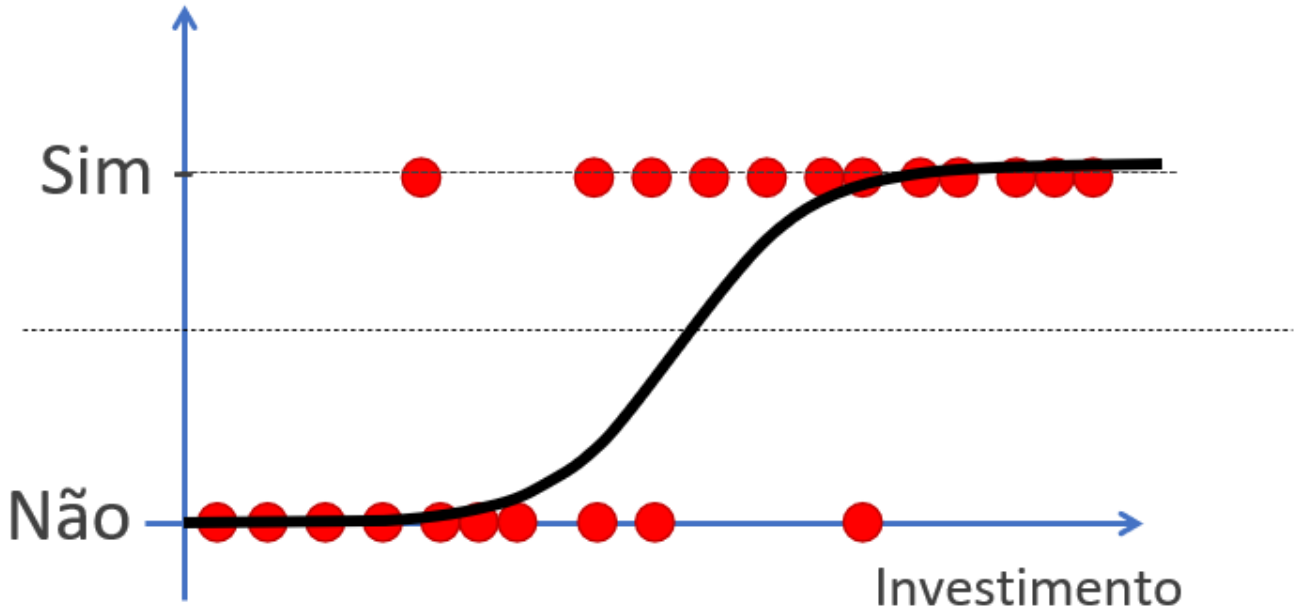
Modelos White-Box

- Regressão Linear
- Regressão Logística
- Árvores de Decisão
- Regras
- Naive Bayes
- Redes Bayesianas

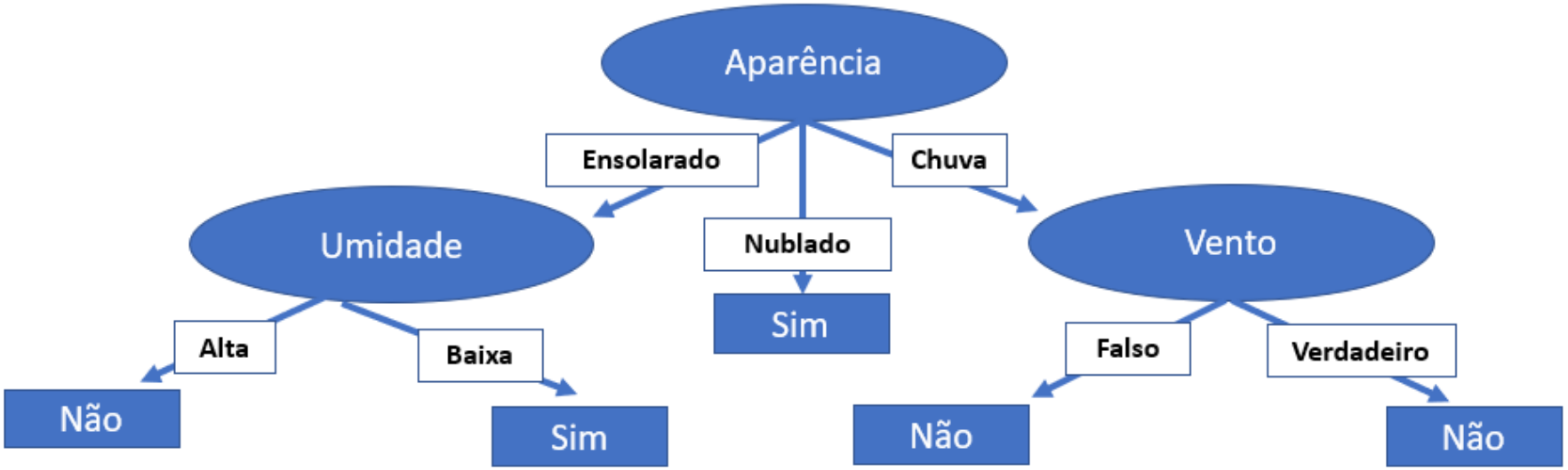
Regressão Linear



Regressão Logística



Árvores de Decisão



Regras

(humidity = high) and (outlook = sunny) => play=no (3.0/0.0)

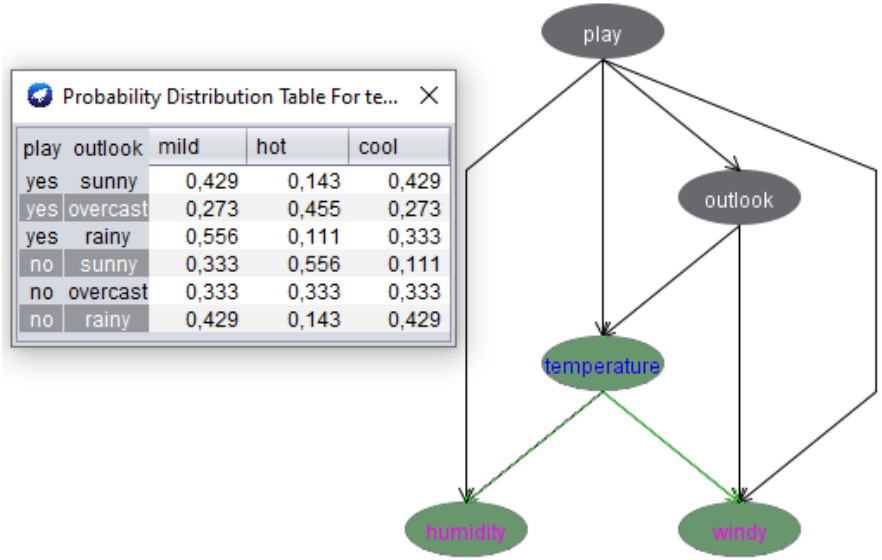
(outlook = rainy) and (windy = TRUE) => play=no (2.0/0.0)

=> play=yes (9.0/0.0)

Naive Bayes

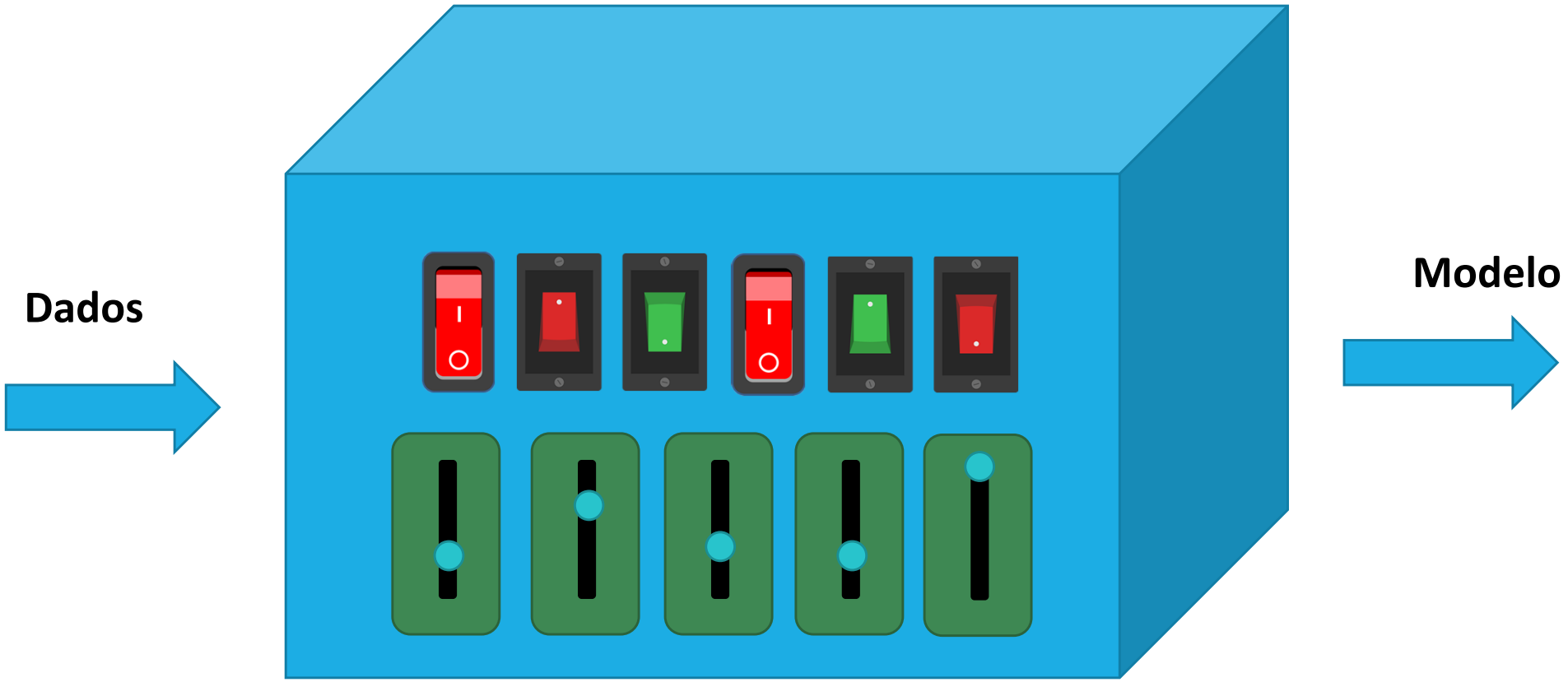
Attribute	Class yes (0.63)	no (0.38)
outlook		
sunny	3.0	4.0
overcast	5.0	1.0
rainy	4.0	3.0
[total]	12.0	8.0
temperature		
hot	3.0	3.0
mild	5.0	3.0
cool	4.0	2.0
[total]	12.0	8.0
humidity		
high	4.0	5.0
normal	7.0	2.0
[total]	11.0	7.0
windy		
TRUE	4.0	4.0
FALSE	7.0	3.0
[total]	11.0	7.0

Redes Bayesianas

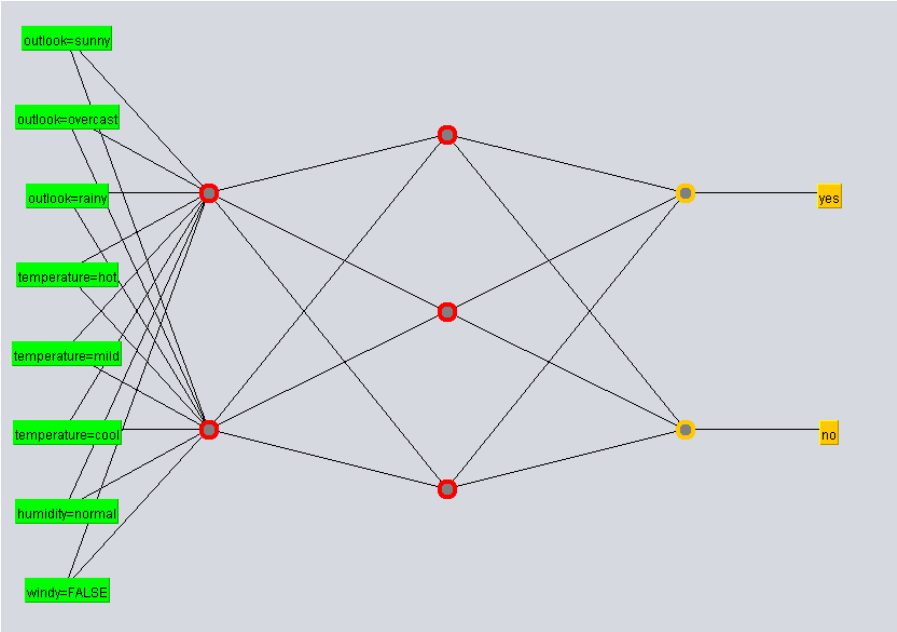


play	outlook	mild	hot	cool
yes	sunny	0,429	0,143	0,429
yes	overcast	0,273	0,455	0,273
yes	rainy	0,556	0,111	0,333
no	sunny	0,333	0,556	0,111
no	overcast	0,333	0,333	0,333
no	rainy	0,429	0,143	0,429

Black-Box

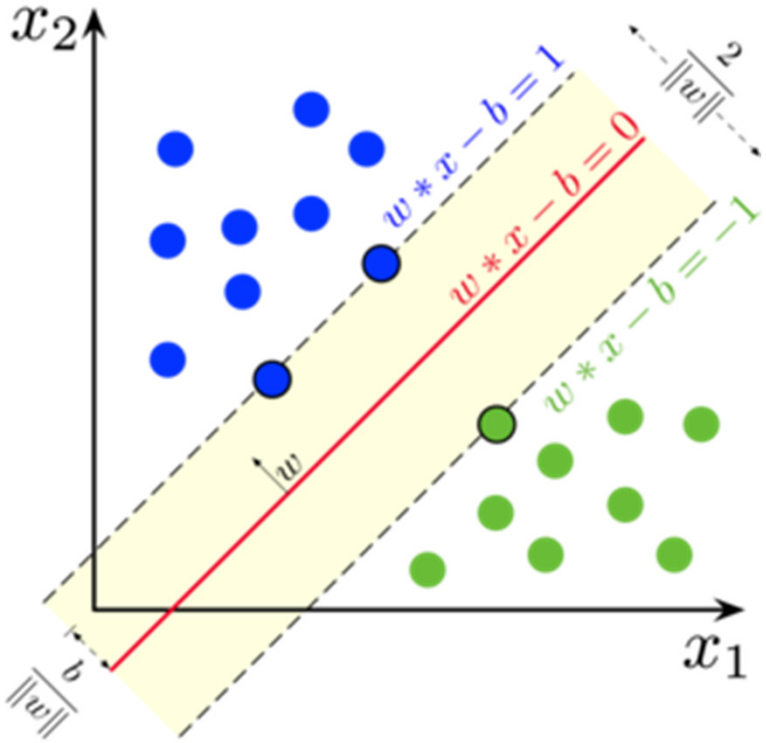


Redes Neurais

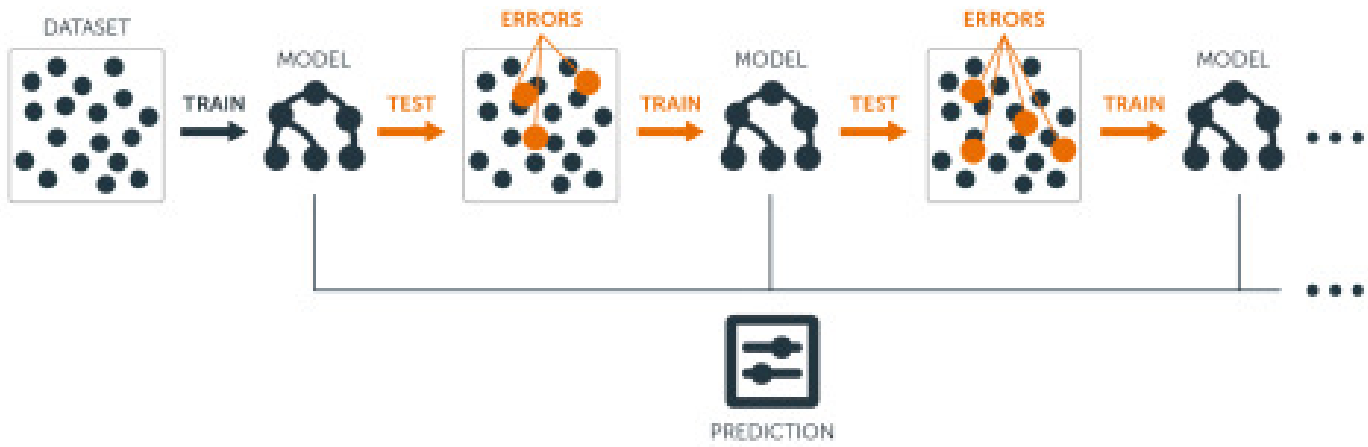


Sigmoid Node 0
Inputs Weights
Threshold -3.693362749395238
Node 4 3.082241702507294
Node 5 3.306187688426408
Node 6 3.4911044791265584
Sigmoid Node 1
Inputs Weights
Threshold 3.6924698090920036
Node 4 -3.094442717894997
Node 5 -3.3115370899414827
Node 6 -3.471834703863284
Sigmoid Node 2
Inputs Weights
Threshold -0.48384997242167727
Attrib outlook=sunny 1.8088532747838728
Attrib outlook=overcast -1.93172612016407
Attrib outlook=rainy 0.6504720854031096
Attrib temperature=hot 0.5760744872326478
Attrib temperature=mild -1.290817967835341
Attrib temperature=cool 1.1591897932939144
Attrib humidity=normal -3.616379358043032
Attrib windy=FALSE -2.3939154307346815
Sigmoid Node 3
Inputs Weights
Threshold -0.49098442300473877
Attrib outlook=sunny 1.7178172895324022
Attrib outlook=overcast -1.8593744093573614
Attrib outlook=rainy 0.6183378563155274
Attrib temperature=hot 0.5645574946434737
Attrib temperature=mild -
1.2180710747148964
Attrib temperature=cool 1.119973028222937
Attrib humidity=normal -3.4482471536526855
Attrib windy=FALSE -2.284459641575569
Sigmoid Node 4
Inputs Weights
Threshold 1.7650549647773217
Node 2 -2.935133311645622
Node 3 -2.747217512059969
Sigmoid Node 5
Inputs Weights
Threshold 1.9287010404771403
Node 2 -3.0996083848921963
Node 3 -2.8794642409052598
Sigmoid Node 6
Inputs Weights
Threshold 2.055948485351768
Node 2 -3.1808505271148597
Node 3 -3.0357195261775414
Class yes
Input
Node 0
Class no
Input
Node 1

Support Vector Machine



Gradient Boosting e XGBoost



Random Forests