

Testing ADABOOST and Bagging

Para esta tarea se utilizaron las características extra extraídas en la entrega previa:

- Cantidad de menciones que contiene el tweet (numérica).
- Es retweet o no (nominal).
- Cantidad de ligas que contiene el tweet (numérica).
- Cantidad de palabras que contiene el tweet (numérica).
- 4 atributos de personalidad provistos por la api de indico.

Bayesian Networks

Se realizaron pruebas utilizando diferentes algoritmos de búsqueda:

- K2, que implementa hill climbing con restringido con el orden de valores..
- Hill Climbing.
- Repeated Hill Climbing.
- Simulated Annealing.
- Tabu search.
- TAB.

También se utilizaron variaciones en los parámetros de cada algoritmo, en algunos, por ejemplo, se varió en número de nodos padres. Los resultados obtenidos son los siguientes:

BNSETAB-18F.csv 3 hours ago by Carlos A	0.69722
Bayesian Network Simple estimator, search algorithm TAB: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNSE3Par-18F.csv 3 hours ago by Carlos A	0.71282
Bayesian Network Simple estimator, search algorithm Tabu Search 3 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNSESimAnn-18F.csv 3 hours ago by Carlos A	0.72982
Bayesian Network Simple estimator, search algorithm Simulation Annealing: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	

BNSE3Par-18F.csv 3 hours ago by Carlos A	0.70014
Bayesian Network Simple estimator, search algorithm Repeated Hill Climbing 3max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNHC7ParMetaCost-18F.csv 3 hours ago by Carlos A	0.74996
MetaCost [0, 1, 1.75, 0] with Bayesian Network Simple estimator, search algorithm Hill Climbing 7 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNHC7Par-18F.csv 3 hours ago by Carlos A	0.72315
Bayesian Network Simple estimator, search algorithm Hill Climbing 7 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNHC3Par-18F.csv 3 hours ago by Carlos A	0.71309
Bayesian Network Simple estimator, search algorithm Hill Climbing 3 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNHC1Par-18F.csv 3 hours ago by Carlos A	0.68998
Bayesian Network Simple estimator, search algorithm Hill Climbing 1 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNMBASE1ParBayST-18F.csv 3 days ago by Carlos A	0.68998
Bayesian Network MBA estimator, search algorithm k2 2 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	
BNK2SE7ParBayST-18F.csv 3 days ago by Carlos A	0.70276
Bayesian Network simple estimator search algorithm k2 7 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word	

BNK2SE2ParBaySTwMB-18F.csv

0.71262

3 days ago by [Carlos A](#)

Bayesian Network simple estimator search algorithm k2 2 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word

BNK2SE2ParBayST-18F.csv

0.71262

3 days ago by [Carlos A](#)

Bayesian Network simple estimator search algorithm k2 2 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word

BNK2SE1ParBayST-18F.csv

0.69871

3 days ago by [Carlos A](#)

Bayesian Network simple estimator search algorithm k2 1 max parent: 5 sentiment 5 emotion 4 personality, number of mentions, retweet and count of links and word

Conclusiones

Algunos de los resultados fueron similares a los obtenidos con Random Forest, por este motivo experimentaré combinando la red bayesiana con método de resampling, bagging y cost sensitive.