

# Variable contribution to boosted tree

Anh Le

February 26, 2015

var	rel.inf
cw.l1	63.398
ins.h.count.both.l2	11.621
ins.h.count.both.l1	10.825
excl_groups.count.l1	1.291
XRCOMP.l1	1.135
reb.h.count.both.l1	0.832
excl_groups.count.l2	0.662
reb.h.count.both.l2	0.616
exclpop.l2	0.570
reb.h.count.one.l1	0.554

Table 1: Insurgency tree

var	rel.inf
cw.l1	49.998
reb.h.count.both.l1	13.483
reb.h.count.both.l2	11.281
reb.h.count.one.l2	2.125
SH.DYN.MORT.l48.l2	2.104
excl_groups_count.l2	1.946
SP.POP.TOTL.l1	1.894
reb.h.count.one.l1	1.830
SP.POP.TOTL.l2	1.815
country.l1	1.163

Table 2: Rebellion tree

var	rel.inf
opp_protests.l1	11.283
opp_protests.l2	6.770
..RF.ZF....l48.l2	3.746
MS.MIL.TOTL.P1	3.666
NY.GDP.MKTP.KD.l1	2.912
protest.tGOV.l1	2.811
SP.POP.TOTL.l1	2.583
W.knn4.std.rebellion.l1	2.467
W.centdist.std.ic.l1	2.295
country.l1	2.206

Table 3: dpc tree

var	rel.inf
SP.POP.TOTL.l1	11.352
SP.POP.TOTL.l2	5.620
State.Dept..l48.l2	5.508
NY.GDP.PCAP.KD.l48.l2	4.317
Amnesty.l2	3.423
excl_groups_count.l2	2.672
dom.cris.i.count.l1	2.579
State.Dept..l12.l1	2.333
..AC.ZF....l2	2.309
State.Dept..l12	2.252

Table 4: erv tree

var	rel.inf
protest.tUNK.l1	20.737
protest.tGOV.l1	9.611
protest.tALL.l1	7.539
opp_protests.l1	5.880
int.cris.ItD.l	3.524
dom.cris.i.count.l1	3.403
opp_protests.l2	2.490
W.gower.events.ic.l1	2.097
protest.tUNK.l2	1.659
dom.cris.i.count.l2	1.516

Table 5: mp tree

	insurgency	rebellion	dpc	erv	mp
brier	0.006	0.005	0.039	0.032	0.033
auc.C	0.997	0.999	0.947	0.980	0.854
precision	0.971	0.966	0.715	0.533	0.505
recall	0.964	0.970	0.516	0.926	0.114

Table 6: Boosting in-sample

	insurgency	rebellion	dpc	erv	mp
brier	0.008	0.012	0.088	0.037	0.027
auc.C	0.996	0.984	0.901	0.956	0.830
precision	0.971	0.958	0.594	0.668	0.571
recall	0.963	0.865	0.725	0.722	0.160

Table 7: Boosting out-sample