

## 1 0 Noise Features

	Actual Low	Actual High
Pred. Low	122.87 ( 122.79 , 122.92 )	13.03 ( 12.98 , 13.11 )
Pred High	11.13 ( 11.08 , 11.21 )	3.97 ( 3.89 , 4.02 )

Table 1: CV Confusion Matrix for alpha = 0.1 . The parentheses are .25 and .75 quantiles.

	Actual Low	Actual High
Pred. Low	100.83 ( 100.72 , 100.72 )	4.87 ( 4.98 , 4.98 )
Pred High	33.17 ( 33.28 , 33.28 )	12.13 ( 12.02 , 12.02 )

Table 2: CV Confusion Matrix for alpha = 0.3 . The parentheses are .25 and .75 quantiles.

	Actual Low	Actual High
Pred. Low	72.54 ( 72.54 , 72.54 )	2.96 ( 2.96 , 2.96 )
Pred High	61.46 ( 61.46 , 61.46 )	14.04 ( 14.04 , 14.04 )

Table 3: CV Confusion Matrix for alpha = 0.5 . The parentheses are .25 and .75 quantiles.

Feature	Number Times
uvot_detection	91

Table 4: Splits for alpha = 0.1 model. The Number Times column is the number of trees the given feature appeared in out of a total of 100 created for cross validation.

Feature	Number Times
uvot_detection	98

Table 5: Splits for alpha = 0.3 model. The Number Times column is the number of trees the given feature appeared in out of a total of 100 created for cross validation.

Feature	Number Times
uvot_detection	100

Table 6: Splits for alpha = 0.5 model. The Number Times column is the number of trees the given feature appeared in out of a total of 100 created for cross validation.

Feature	No. Times First Split
uvot_detection	91

Table 7: Splits for alpha = 0.1 model. The Number Times column is the number of trees the given feature was the first split in a total of 100 created for cross validation.

Feature	No. Times First Split
uvot_detection	98

Table 8: Splits for alpha = 0.3 model. The Number Times column is the number of trees the given feature was the first split in a total of 100 created for cross validation.

Feature	No. Times First Split
uvot_detection	100

Table 9: Splits for  $\alpha = 0.5$  model. The Number Times column is the number of trees the given feature was the first split in a total of 100 created for cross validation.

## 2 10 Noise Features

	Actual Low	Actual High
Pred. Low	122.46 ( 122.09 , 122.81 )	13.44 ( 13.09 , 13.81 )
Pred High	11.54 ( 11.19 , 11.91 )	3.56 ( 3.19 , 3.91 )

Table 10: CV Confusion Matrix for  $\alpha = 0.1$  . The parentheses are .25 and .75 quantiles.

	Actual Low	Actual High
Pred. Low	99.49 ( 98.96 , 100.45 )	6.21 ( 5.25 , 6.74 )
Pred High	34.51 ( 33.55 , 35.04 )	10.79 ( 10.26 , 11.75 )

Table 11: CV Confusion Matrix for  $\alpha = 0.3$  . The parentheses are .25 and .75 quantiles.

	Actual Low	Actual High
Pred. Low	71.54 ( 71.34 , 72.54 )	3.96 ( 2.96 , 4.16 )
Pred High	62.46 ( 61.46 , 62.66 )	13.04 ( 12.84 , 14.04 )

Table 12: CV Confusion Matrix for  $\alpha = 0.5$  . The parentheses are .25 and .75 quantiles.

Feature	Number Times
uvot_detection	92
f8	9
f4	8
f6	3
f2	2
f9	2
f10	2
f7	1

Table 13: Splits for  $\alpha = 0.1$  model. The Number Times column is the number of trees the given feature appeared in out of a total of 100 created for cross validation.

Feature	Number Times
uvot_detection	97
f4	8
f8	5
f9	2
f10	2
f3	1
f5	1
f7	1

Table 14: Splits for  $\alpha = 0.3$  model. The Number Times column is the number of trees the given feature appeared in out of a total of 100 created for cross validation.

Feature	Number Times
uvot_detection	99
f4	9
f8	4
f10	4
f9	3
f5	2
f7	2
f2	1
f3	1

Table 15: Splits for  $\alpha = 0.5$  model. The Number Times column is the number of trees the given feature appeared in out of a total of 100 created for cross validation.

Feature	No. Times First Split
uvot_detection	92

Table 16: Splits for  $\alpha = 0.1$  model. The Number Times column is the number of trees the given feature was the first split in a total of 100 created for cross validation.

Feature	No. Times First Split
uvot_detection	97
f8	1

Table 17: Splits for  $\alpha = 0.3$  model. The Number Times column is the number of trees the given feature was the first split in a total of 100 created for cross validation.

Feature	No. Times First Split
uvot_detection	99

Table 18: Splits for  $\alpha = 0.5$  model. The Number Times column is the number of trees the given feature was the first split in a total of 100 created for cross validation.