

Confusion Matrices for Confirmation Set Models

A

Sequential, Full Set

| Prediction | HGSC | CCOC | ENOC | LGSC | MUC |
|------------|------|------|------|------|-----|
| | 403 | 8 | 48 | 8 | 4 |
| | 8 | 62 | 4 | 0 | 1 |
| | 6 | 2 | 50 | 1 | 6 |
| | 3 | 0 | 2 | 1 | 0 |
| | 4 | 0 | 3 | 2 | 16 |
| Truth | | | | | |
| | | | | | |

B

Sequential, Optimal Set

| Prediction | HGSC | CCOC | ENOC | LGSC | MUC |
|------------|------|------|------|------|-----|
| | 405 | 8 | 56 | 8 | 4 |
| | 6 | 63 | 5 | 1 | 3 |
| | 5 | 1 | 41 | 3 | 5 |
| | 5 | 0 | 2 | 0 | 0 |
| | 3 | 0 | 3 | 0 | 15 |
| Truth | | | | | |
| | | | | | |

C

SMOTE–Random Forest, Full Set

| Prediction | HGSC | CCOC | ENOC | LGSC | MUC |
|------------|------|------|------|------|-----|
| | 407 | 8 | 49 | 9 | 4 |
| | 6 | 62 | 2 | 0 | 0 |
| | 4 | 1 | 49 | 0 | 4 |
| | 4 | 0 | 2 | 3 | 0 |
| | 3 | 1 | 5 | 0 | 19 |
| Truth | | | | | |
| | | | | | |

D

SMOTE–Random Forest, Optimal Set

| Prediction | HGSC | CCOC | ENOC | LGSC | MUC |
|------------|------|------|------|------|-----|
| | 402 | 8 | 45 | 6 | 4 |
| | 9 | 62 | 2 | 0 | 0 |
| | 6 | 1 | 52 | 0 | 5 |
| | 4 | 0 | 1 | 4 | 0 |
| | 3 | 1 | 7 | 2 | 18 |
| Truth | | | | | |
| | | | | | |

E

Two–Step, Full Set

| Prediction | HGSC | CCOC | ENOC | LGSC | MUC |
|------------|------|------|------|------|-----|
| | 399 | 8 | 46 | 6 | 4 |
| | 10 | 63 | 3 | 0 | 0 |
| | 7 | 1 | 52 | 3 | 4 |
| | 6 | 0 | 3 | 3 | 0 |
| | 2 | 0 | 3 | 0 | 19 |
| Truth | | | | | |
| | | | | | |

F

Two–Step, Optimal Set

| Prediction | HGSC | CCOC | ENOC | LGSC | MUC |
|------------|------|------|------|------|-----|
| | 404 | 8 | 46 | 8 | 4 |
| | 8 | 63 | 3 | 1 | 0 |
| | 4 | 1 | 53 | 1 | 4 |
| | 4 | 0 | 2 | 2 | 0 |
| | 4 | 0 | 3 | 0 | 19 |
| Truth | | | | | |
| | | | | | |