Supplementary Material

Supplementary Table 2: Detailed results of decision tree for the classification problem prevalent dominant variants and contact persons: ROC-AUC for the specific prevalent dominant variants and contact persons for the training (10-Fold-Cross Validation) and validation (6-day Benchmark) dataset.

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| --- | --- | --- |
| Result and Benchmark Table | 10-Fold-Cross Validation | 6-day Benchmark |
|  | ROC-AUC | ROC-AUC |
| prevalent dominant variants detection using decision tree model | Contact | 0.83 | 0.80 |
| Wildtype | 0.75 | 0.75 |
| Alpha | 0.60 | 0.63 |
| Delta | 0.79 | 0.77 |
| Omicron | 0.89 | 0.87 |