|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Dataset: Hour.csv  Window Size: 120 days  method extremes  methodLevel **Low** | | Random Forest | Decision Tree | Support Vector Machine | K Nearest Neighbour |
| No Data Sampling | Static Utility | RMSE | 0.00669 | 0.00899 | 0.07449 | 0.03938 |
| RMSE PHI | 0.00470 | 0.00600 | 0.04962 | 0.02942 |
| Dynamic Utility | RMSE | 0.00669 | 0.00899 | 0.07449 | 0.03938 |
| RMSE PHI | 0.00312 | 0.00516 | 0.03541 | 0.02302 |
| Data Sampling using SmoteR | Static Utility | RMSE | Internal error. | | | |
| RMSE PHI |
| Dynamic Utility | RMSE | 0.11612 | 0.11331 | 0.13518 | 0.12422 |
| RMSE PHI | 0.04476 | 0.04578 | 0.07106 | 0.05689 |
| Data Sampling using Relevance Based OverSampling | Static Utility | RMSE | 0.00722 | 0.00893 | 0.07552 | 0.03700 |
| RMSE PHI | 0.00517 | 0.00673 | 0.04216 | 0.02562 |
| Dynamic Utility | RMSE | 0.00658 | 0.00887 | 0.07470 | 0.03830 |
| RMSE PHI | 0.00250 | 0.00414 | 0.02947 | 0.01880 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Dataset: Hour.csv  Window Size: 120 days  method extremes  methodLevel **high** | | Random Forest | Decision Tree | Support Vector Machine | K Nearest Neighbour |
| No Data Sampling | Static Utility | RMSE | 0.00669 | 0.00899 | 0.07449 | 0.03938 |
| RMSE PHI | 0.00424 | 0.00577 | 0.03834 | 0.01784 |
| Dynamic Utility | RMSE | 0.00669 | 0.00899 | 0.07449 | 0.03938 |
| RMSE PHI | 0.00542 | 0.00661 | 0.05562 | 0.02869 |
| Data Sampling using SmoteR | Static Utility | RMSE | Internal error. | | | |
| RMSE PHI |
| Dynamic Utility | RMSE | 0.04912 | 0.04804 | 0.10142 | 0.07329 |
| RMSE PHI | 0.04758 | 0.04637 | 0.08999 | 0.06638 |
| Data Sampling using Relevance Based OverSampling | Static Utility | RMSE | 0.00690 | 0.00908 | 0.09145 | 0.04029 |
| RMSE PHI | 0.00476 | 0.00624 | 0.02869 | 0.01852 |
| Dynamic Utility | RMSE | 0.00667 | 0.00843 | 0.09637 | 0.04008 |
| RMSE PHI | 0.00541 | 0.00623 | 0.07054 | 0.02945 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Dataset: Hour.csv  Window Size: 120 days  method extremes  methodLevel **Both** | | Random Forest | Decision Tree | Support Vector Machine | K Nearest Neighbour |
| No Data Sampling | Static Utility | RMSE | 0.00669 | 0.00899 | 0.07449 | 0.03938 |
| RMSE PHI | 0.00633 | 0.00833 | 0.06271 | 0.03441 |
| Dynamic Utility | RMSE | 0.00669 | 0.00899 | 0.07449 | 0.03938 |
| RMSE PHI | 0.00625 | 0.00839 | 0.06594 | 0.03679 |
| Data Sampling using SmoteR | Static Utility | RMSE | 0.08060 | 0.08021 | 0.17759 | 0.12358 |
| RMSE PHI | 0.08051 | 0.08011 | 0.17529 | 0.12257 |
| Dynamic Utility | RMSE | 0.12072 | 0.11595 | 0.16678 | 0.13759 |
| RMSE PHI | 0.11428 | 0.10985 | 0.15830 | 0.13067 |
| Data Sampling using Relevance Based OverSampling | Static Utility | RMSE | 0.00678 | 0.00947 | 0.07624 | 0.03778 |
| RMSE PHI | 0.00643 | 0.00908 | 0.06371 | 0.03137 |
| Dynamic Utility | RMSE | 0.00643 | 0.00813 | 0.07525 | 0.03895 |
| RMSE PHI | 0.00605 | 0.00748 | 0.06893 | 0.03581 |