|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | nTrain | nTest | MSE |  | Posterior SD |
| GBM-BRT | 9256 | 2314 | 0.0646 | 0.9615 | 0.0257 |
| GAM | 2636 | 659 | 0.0121 | 0.5213 | 0.01069 |
| MARS | 6632 | 1657 | 0.0561 | 0.9648 | 0.03397 |
| RF | 2861 | 715 | 0.64824 | 0.5851 | 0.10174 |

*Table 1* shows the results of the evaluation of runtime model skill. nTrain denotes the number of data points used to fit the model with. nTest represents the number of data points that were used to evaluate performance statistics. MSE denotes the mean squared prediction error, measured in log-seconds2. is the squared correlation between observed and predicted values, and is interpreted as fraction of explained variance. Posterior SD is the mean standard deviation of the posterior predictions, measured in log-seconds.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | nTrain | nTest | MSE |  | Posterior SD |
| GBM-BRT | 9256 | 2314 | 0.000245 | 0.8748 | 0.0012 |
| GAM | 2636 | 659 | 0.000718 | 0.8993 | 0.004998 |
| MARS | 6632 | 1657 | 0.000168 | 0.94175 | 0.001421 |
| RF | 2861 | 715 | 0.000034 | 0.9818 | 0.00062 |

*Table 2* shows the results of the evaluation of accuracy model skill.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Predictor | GBM-BRT | GAM | MARS | RF |
| Number of Predictors | 1.38 | 0.00 | 0.00 | 0.00 |
| Number of CPUs | 0.07 | 0.36 | 0.36 | 1.00 |
| Memory (GB) | 0.15 | 0.08 | 2.06 | 1.04 |
| Number of Training Examples | 74.59 | 0.06 | 3.67 | 42.00 |
| Number of Cells | 5.93 | 37.45 | 4.66 | 0.04 |

*Table X* shows the reduction in explained variance () when a model fit will all terms except one is compared to the full model, for an execution time model.