**Table 2: Evaluation of Model Performance**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Scheduled Duration** | **Neural Network** | **Linear Regression** | **Ridge Regression** | **Lasso Regression** | **Random Forest** | **GBM** | **XGBoost** |
| MSE | 2498.4 ± 202.0 | **2469.3** ± **224.1** | 3137.5 ± 299.1 | 3131.2 ± 305.1 | 3134.1 ± 300.9 | 2567.3 ± 194.3 | 583.5 ± 245.6 | 2507.0 ± 214.6 |
| RMSE (minutes) | 49.9 ± 2.0 | **49.7** ± **2.3** | 56.0 ± 2.7 | 55.9 ± 2.7 | 55.9 ± 2.7 | 50.6 ± 1.9 | 50.8 ± 2.4 | 50.0 ± 2.2 |
| MAE | 35.3 ± 1.0 | **31.8** ± **1.2** | 36.9 ± 1.3 | 36.9 ± 1.3 | 36.9 ± 1.3 | 36.8 ± 1.3 | 32.4 ± 1.3 | 32.5 ± 1.4 |
| MAPE | 0.34 ± 0.01 | **0.26** ± **0.01** | 0.31 ± 0.01 | 0.31 ± 0.01 | 0.31 ± 0.01 | **0.26** ± **0.01** | 0.27 ± 0.01 | 0.27 ± 0.01 |
| R2 | **0.78** ± **0.03** | **0.78** ± **0.01** | 0.72 ± 0.02 | 0.72 ± 0.02 | 0.72 ± 0.02 | 0.77 ± 0.02 | **0.78 ± 0.02** | **0.78 ± 0.02** |

Abbreviations: GBM, MSE, mean squared error; RMSE, root mean squared error; MAE, mean absolute error; MAPE, mean absolute percentage error; *R*2, coefficient of det