1. DMD-LSTM TESTING AND EVALUATION (Different Window Sizes)

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| --- | --- | --- | --- | --- |
| **ERROR METRICS** | **WINDOW SIZE** | | | |
| **5** | **10** | **15** | **20** |
| **MSE** |  |  |  |  |
| **RMSE** |  |  |  |  |
| **MAE** |  |  |  |  |
| **MAPE** |  |  |  |  |

1. BASELINE LSTM (Different Window Sizes)

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| **ERROR METRICS** | **WINDOW SIZE** | | | |
| **5** | **10** | **15** | **20** |
| **MSE** |  |  |  |  |
| **RMSE** |  |  |  |  |
| **MAE** |  |  |  |  |
| **MAPE** |  |  |  |  |

1. DMD-LSTM VALIDATION (Window Size = 5)

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| **STOCKS** | **MSE** | **RMSE** | **MAE** | **MAPE** |
| **PSEI** | 31669.602701 | 177.959554 | 128.609522 | 0.019111 |
| **AC** | 334.596086 | 18.291968 | 12.152423 | 0.033886 |
| **ALI** | 0.888378 | 0.942538 | 0.612138 | 0.036234 |
| **AP** | 0.869306 | 0.932366 | 0.659025 | 0.025030 |
| **BDO** | 9.437371 | 3.072030 | 1.917598 | 0.027811 |
| **BLOOM** | 6.424741 | 2.534707 | 0.707406 | 0.068108 |
| **FGEN** | 0.697390 | 0.835099 | 0.589689 | 0.032449 |
| **GLO** | 3485.954319 | 59.041971 | 36.287456 | 0.031104 |
| **ICT** | 8.046283 | 2.836597 | 1.446341 | 0.037207 |
| **JGS** | 2.768997 | 1.664030 | 0.909225 | 0.039754 |
| **LTG** | 0.579147 | 0.761017 | 0.456835 | 0.057332 |
| **MEG** | 0.018316 | 0.135336 | 0.089568 | 0.044411 |
| **MER** | 57.848920 | 7.605848 | 4.772926 | 0.037546 |
| **MPI** | 0.045508 | 0.213325 | 0.142975 | 0.033738 |
| **PGOLD** | 2.051151 | 1.432184 | 1.053508 | 0.028002 |
| **RLC** | 0.474353 | 0.688733 | 0.446334 | 0.039573 |
| **RRHI** | 6.239762 | 2.497952 | 1.873154 | 0.026765 |
| **SMC** | 9.741641 | 3.121160 | 1.633596 | 0.022560 |
| **TEL** | 4258.850672 | 65.259870 | 44.221286 | 0.029942 |
| **URC** | 12.778722 | 3.574734 | 2.020836 | 0.037336 |

1. OPTIMAL ALMA PARAMETERS VALIDATION RESULTS

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1. IDLE SYSTEM USAGE STATISTICS
2. INTERNAL LOAD USAGE STATISTICS

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|  | **INTERNAL COMPONENT/MODULE** | | |
| **DATA COLLECTOR** | **DATA PROCESSOR** | **alamSYS PREPROCESSOR**  *(Data Collector & Data Processor)* |
| **FAILURE RATE (%)** | 0 | 0 | 0 |
| **SUCCESS RATE (%)** | 100 | 100 | 100 |
| **AVERAGE RUNTIME (s)** | 41.72398 | 8.38061 | 48.30466 |
| **AVERAGE CPU (%) UTILIZATION** | 11.40659 | 92.71117 | 20.03138 |
| **AVERAGE MEMORY UTILIZATION (MiB)** | 3.64200 | 57.09545 | 794.29436 |
| **AVERAGE NETWORK UTILIZATION (MB)** | 232.73640 | 154 | 77.27655 |

*\* Out of 100 total runs*

1. DEPLOYMENT LOAD TEST RESULTS
2. REAL WORLD APPLICATION RESULTS