Distribution System State Estimation using Hybrid Classical–AI methods

| Measurement Data |
| Topology Processing |
| Bad-data Detection & Filtering |

| Least Square Method |
| Linear Least Absolute Value |
| Kalman Filter |
| Other Classical Method |

| Machine Learning Models |
| Output Safeguarding |
| Post-processing |

Reconciled Output
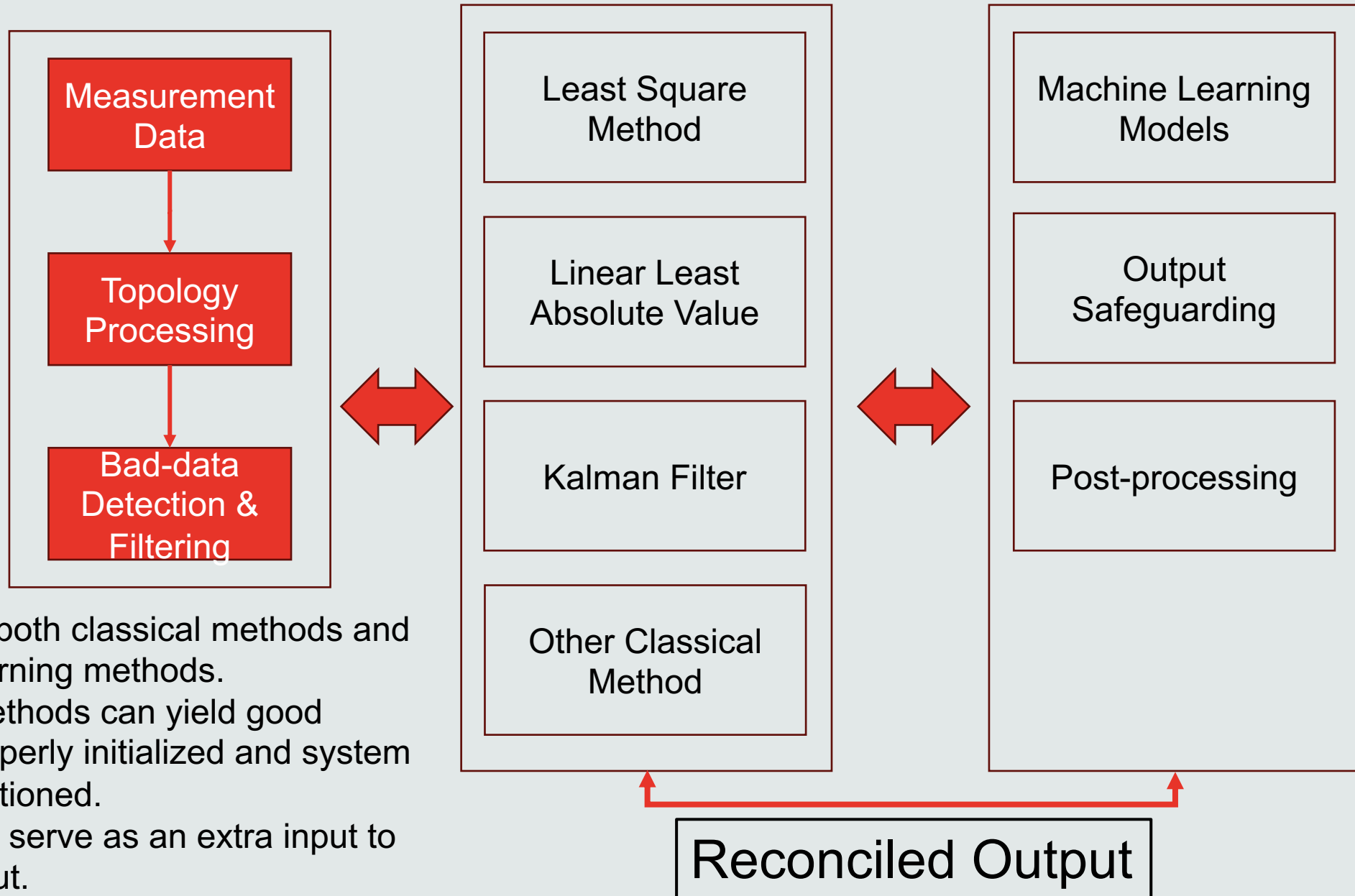
- We will use both classical methods and machine learning methods.
- Classical methods can yield good results if properly initialized and system is well-conditioned.
- ML methods serve as an extra input to the SE output.