

At the heart of AI's promise is a critical function – reliable anomaly detection. Because of its wide array of applications, mastering anomaly detection in the age of AI-driven predictive analytics is incredibly valuable.

Predictive and preventive analytics flags supervisors and engineers to schedule downtime on critical infrastructure assets before breakdowns occur, forecasts high impact external weather events, or alerts data analysts and front-line workers to dangerous deviations in data quality.

Machine Learning automation identifies bad sensor data for further action or analysis

With its state-of-the-art AI engine, infinittii auto qa/qc performs Quality Assurance (QA) and Quality Control (QC) on any sensor data shifts or outliers that may distort results or falsely trigger alerts. Machine Learning models can provide three courses of action on bad sensor data:

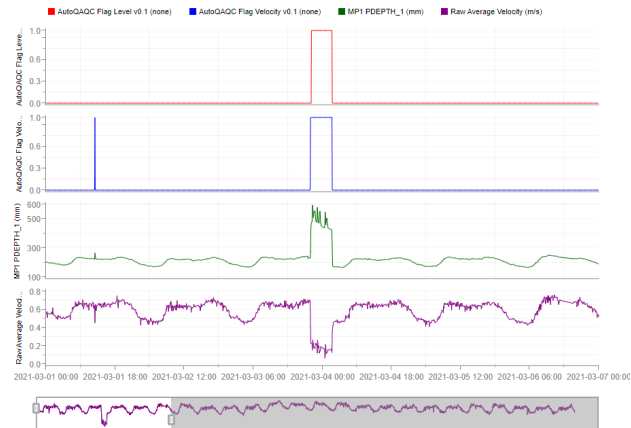
- Data anomalies are flagged for further investigation by engineers and data analysts in their manual workflow
- Certain anomalies may be deemed acceptable, and automatically eliminated from the data stream
- Other anomalies may be automatically substituted with appropriate data values so operational parameters are maintained to make real-time predictions

Users can securely access infinittii auto qa/qc sensor anomaly detection results through any Internet-connected web browser. Additional features of infinittii auto qa/qc include:

- Reliably runs time-series anomaly detection in real-time
- Able to run as a basic service across disparate systems spread throughout the organization
- Deploys many instances of the same QA/QC data model, but with different settings and properties
- Keeps source code in one place for easy updates, maintenance and deployment across a large infrastructure installation

Automated infrastructure systems or one-off AI test-bench projects benefit equally

infinittii auto qa/qc has proven itself in large-scale infrastructure settings relied on to protect human health. It is an equally valuable tool for data analysts and engineers to use on AI test-bench projects to build and test new data models, manually examine detected anomalies to further refine the models, then deploy them in full production systems. Either way, infinittii auto qa/qc delivers.



DATE/TIME	AUTOQAQC FLAG LEVEL V0.1 (NONE)	AUTOQAQC FLAG VELOCITY V0.1 (NONE)	MP1 PDEPTH_1 (MM)	RAW AVERAGE VELOCITY (M/S)
2021-03-03 20:45:00	0	0	231.76	0.7038
2021-03-03 20:50:00	0	0	231.03	0.6723
2021-03-03 20:55:00	1	1	274.72	0.4149
2021-03-03 21:00:00	0	1	419.17	0.225
2021-03-03 21:05:00	1	1	465.06	0.2295
2021-03-03 21:10:00	1	1	472.67	0.2286

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infinittii ai advantage

Trusted since 2014 to provide environmental monitoring to many of the largest water utilities in the U.S and Canada, infinittii ai has evolved into a leader in AI-driven predictive analytics for industrial and Smart City infrastructure applications that rely on time-series data. The company serves its customers via a trusted partner network that includes engineering and IT services companies like AECOM, Core & Main, Kerr Wood Leidal, K2 Geospatial and CSL Services.

infinittii ai software performs real-time analysis, checks flow monitoring status, sets alarms and accepts all types of data from any source and offers predictive and prescriptive analytics.

For more information, please email info@infinittii.ai or call +1 778-200-2064.