

## Plug-and-play AI-driven containerized solutions for predictive manufacturing assets monitoring and maintenance on Google Cloud

### Service Overview

Fully customizable solution for monitoring manufacturing assets from IoT enabled smart sensors using pre-trained AI. The AI predicts, identifies, and simulates problems and readiness ahead of time. The solution follows Statistical Process Control (SPC) methodology and alerts when product/process measurements fall out of pre-determined control limits. Its' architecture allows easy deployment on-prem & the cloud.

Our containerized solution is a one stop solution for end-end process review. We aim to enable business teams to quickly gain new insights.



Assets monitoring dashboard with AI-driven live alerts of high risk product/process variation (over 90% accuracy in testing)

### Asset Monitoring & Maintenance with Statistical Process Control (SPC)



- Live data collected, standardized and stored to be monitored and analyzed.
- AI solution automatically triggers alerts and communicate key personnels when product/process measurements fall out of pre-determined control limits.
- Single dashboard to enable view of multiple process stream analysis.
- Can be applied throughout all stages in manufacturing processes.

### Techolution Value Propositions



#### Access to our AI center of Excellence

Leverage top AI / IoT talent including published data scientists and AI specialists with expertise in deep learning and GPU computing for data science, signal / image processing, etc.



#### Continuously Integrated Dev Support for R&D

Techolution provides managed agile/scrum teams equipped with developers, Cloud DevOps / MLOps experts and quality assurance



#### Project Management and Subject Matter Expertise

Our R&D-as-a-service engagement model includes a dedicated project manager and a subject matter expert to translate requirements into functional development stories

Techolution's assets monitoring solution, touts an overall daily accuracy of over **90% in detecting unplanned defects**

Techolution's **turnkey solution** are **less risky** than leveraging internal resources. **Save on costs** with outcome-based billing