

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

Service Overview

Fully customizable solution for monitoring industrial assets from IoT enabled smart sensors using pre-trained AI. The AI predicts, identifies, and simulates problems and readiness ahead of time. The solution predicts problems while finding root cause for current problems. Its' architecture allows easy deployment on-prem & the cloud.

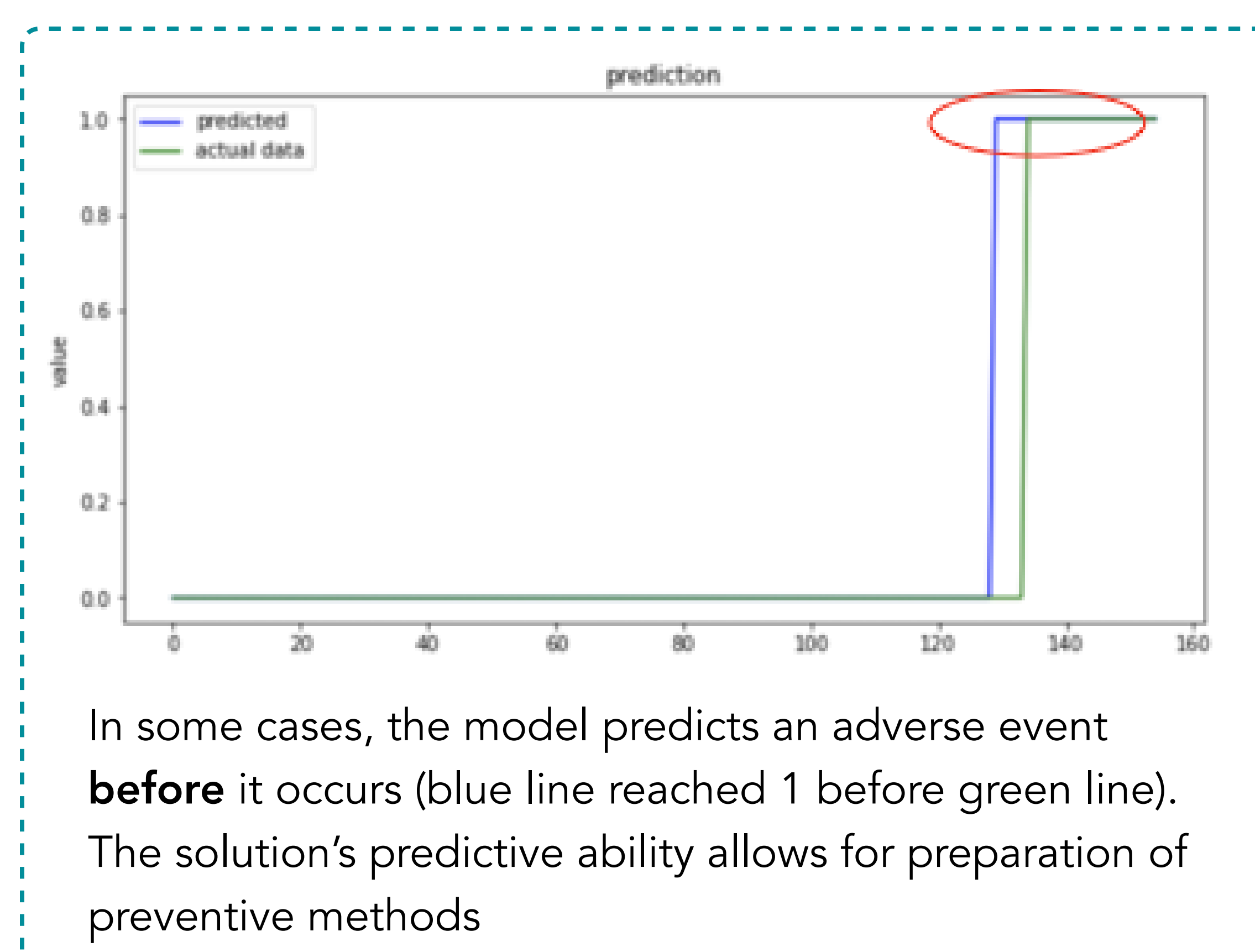
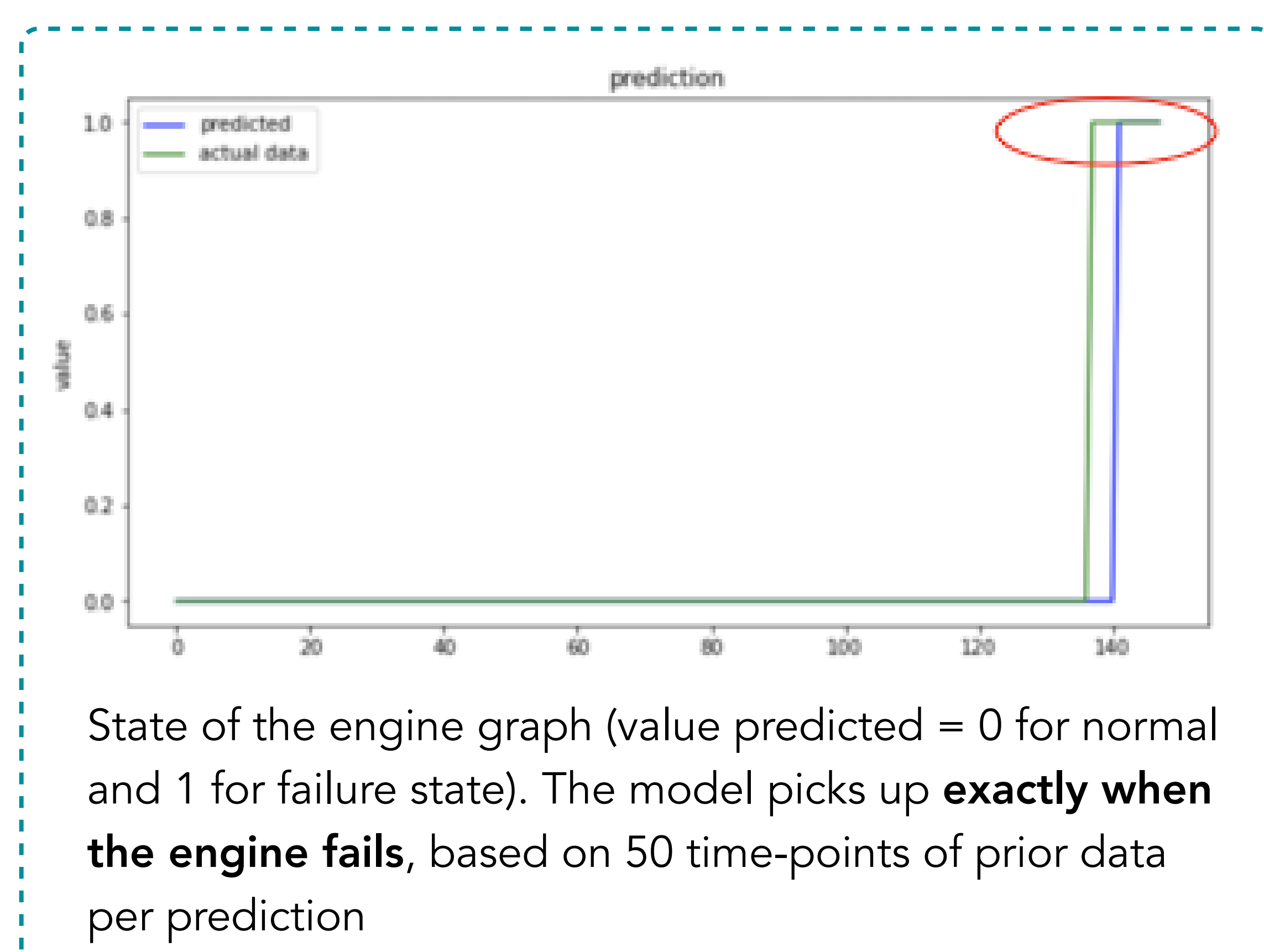
Our containerized solution is a one stop solution for end-end process review. We aim to enable business teams to quickly gain new insights.



Assets monitoring dashboard with AI-driven live alerts of yield loss events (over 90% accuracy in testing)

Understanding Predictive Asset Monitoring & Maintenance

- Utilized public repository of engine failures data (i.e. simulated datasets published online).
- Used plurality of sensor values (~20 sensors) to predict when an engine will fail in the future.
- Designed a Tensorflow based Long Short Term Memory neural network.



The solution enables corporations to identify high risk events before they occur or at least when they are likely to occur. "Time to event" models estimate the time until the next catastrophic failure event, which can be applied to monitor assets on the field.

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 downtime**

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