

KPIT Predictive Maintenance Solution – An AI/ML based Remaining Useful Life (RUL) Prediction for Automotive Components



KPIT's RUL solution uses AI/ML to accurately translate data into timely, actionable intelligence. These insights enable the vehicle owner, OEM or mobility service provider to predict the maintenance needs of their fleet for maximum uptime, timely fixes and higher productivity.

WHAT WE OFFER



Platform Solution

Automated Data Discovery, Curation and Ingress into rich Data Lake. Feature Engineering Platform that packages curated Data in pre-configured primitives exposed through simple APIs for model development. Modeling Layer that uses APIs to retrain Base Models and predicts intended parameters.



Business Impact

Improve asset reliability. Maximize parts usage across vehicles, drivers, weathers conditions. Improve supply chain readiness. Minimize unscheduled downtime costs.



Cycle-time Reduction

Delivers customer outcome with 30-50% reduction in cycle-time, powered by ready solution blocks and ML models for most of the common vehicle and infrastructure subsystems.



Powered by Azure

KPIT's RUL Solution uses Azure Platform Services such as Azure Data Lake, Azure SQL and Databricks to ingest, process and store large amounts of data for Analytics and ML. Azure support for Data Science Notebooks in cloud enables productionizing new ML models faster and facilitates Model retraining.



LEARN MORE

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KPIT

Microsoft Azure

Microsoft Azure is an ever-expanding set of cloud computing services to help your organization meet its business challenges. With Azure, your business or organization has the freedom to build, manage, and deploy applications on a massive, global network using your preferred tools and frameworks.

KEY USE CASES



WEB APPLICATIONS

Build anything from lightweight websites to multi-tier cloud services that scale up as your traffic grows.



CLOUD STORAGE

Rely on geo-redundant cloud storage for backup, archiving, and disaster recovery.



BIG DATA & HPC

Get actionable insights from your data by taking advantage of a fully compatible, enterprise-ready Hadoop service.



MOBILE

Accelerate your mobile app development by using a backend hosted on Microsoft Azure.



MEDIA

Create, manage, and distribute media in the cloud – everything from encoding to content protection

WHY AZURE

FLEXIBLE APPLICATION MODEL

Microsoft Azure provides a rich set of application services, including SDKs, caching, messaging, and identity. You can write applications in .NET, PHP, Java, node.js, Python, Ruby, or using open REST protocols. This is all part of Microsoft's promise to let you build using any language, tool, or framework.

ALWAYS ON, ALWAYS HERE

Build resilient applications with automatic operating system and service updating, built-in network load balancing, and geo-redundant storage. Microsoft Azure also proudly delivers a 99.95% monthly SLA. You can rely on decades of experience in data center operations and trust that everything Microsoft Azure offers is backed by industry certifications for security and compliance.

DATA CENTER WITHOUT BOUNDARIES

Microsoft Azure makes it easy for you to integrate your on-premises IT environment with the public cloud. Migrate your virtual machines to Microsoft Azure without the need to convert them to a different format. Use the robust messaging and networking capabilities in Microsoft Azure to deliver hybrid solutions, and then manage your hybrid applications from a single console with Microsoft System Center.

GLOBAL REACH

With data centers around the globe, a massive investment in data center innovation, and a worldwide Content Delivery Network, you can build applications that provide the best experience for users, wherever they are.

Learn more: www.microsoftazure.com

KPIT