Would you like to reduce maintenance costs?



Achieving sustainable benefits with Predictive Maintenance

Predictive Maintenance:

- · Maximises equipment uptime
- · Reduces maintenance costs

Our advanced data analytics predicts when equipment failure is likely to occur before the event allowing you to perform maintenance before failure.

Rheinberry and Amgyda are experts spanning aerospace, transport, airports, technology and security and bring you a robust and powerful A//ML (Artificial Intelligence/Machine Learning) platform.

. AMYGDA

From requirements definition, technical assurance and service delivery to service design, platform customisation and technical support, you can rest assured we have it covered across the full life-cycle.

How can you avoid fear and uncertainty?

AI/ML based Predictive Maintenance is not intended to replace people.

Rather it focuses on providing the necessary information and intelligence you need to operate and allow your teams to become more effective.

- · Maintain systems more efficiently
- Return financial benefits
- Improve customer experience and service.

Implementing AI/ML systems can be daunting if your organisation is unprepared.

This is where we can help you assure your teams are consulted and engaged, stakeholders informed and aligned, and benefits clearly described.

Your full organisation should have a stake in their subsequent success.

Our AI/ML Data Analytics and Predictive Maintenance solution:

- · Reduces maintenance costs by up to 30%
- · Maximises uptime
- · Improves reliability, leading to improved safety

Contact us for a free demonstration, and ROI discussion - info@rheinberry.com

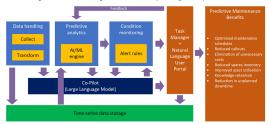
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Data Analytics Leveraging AI, Machine Learning and Large Language Models

Artificial Intelligence and Machine Learning are core enablers for implementing effective predictive maintenance

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Our Predictive Maintenance solution comprises two key components:

 The AI/ML engine provides pattern recognition and anomaly detection together with continuous learning, consisting of:

- · Data Handling schemes designed to collect, transform and store sensor data.
- · Customised predictive analytics models to continuously assess and analyse the data in real-time.
- · Business-rule based condition monitoring routines, trained to raise the right alerts at the right time.

2) The "Co-Pilot" Large

Language Model (LLM) – a

Generative AI tool built to:

- Ingest large volumes of textual data such as implementation, user and maintenance manuals, reports, and unformatted data from other systems and sources.
- A natural language user interface allowing access to all aspects of the service.

Example natural language conversation



Alert: Lo ing oil pressure for Lubricating Oil system on car 250759 Description: The measured engine oil pressure is approaching the prescribed limit



when is the maintenance due for this asset? Can I wait till that?



The next maintenance is due in 21 days. Based on 6 previous S3 shutdowns, the RUL is 14 days.

You cannot wait until the next maintenance



What are the potential causes for this



The likely causes for this based on the spec are

Low oil level Clogged oil filter Leaking oil pipes/connections Oil contaminated with fael Sensor defect

Additional causes have also been recognised in the field as follows:



what is the maintenance action for OI Contaminated with Fuel

RHFINBERRY >>> Our low risk approach providing high returns



Why Choose us?

Rheinberry's expertise spans both technical and business capabilities, enabling us to partner with you from inception through to delivery and continuous improvement.

Our partner for Data Analytics and Predictive Maintenance is Amygda.

Formed by ex-Rolls Royce engineers. Amygda's platform uses advanced AI/ML to identify trends in equipment behaviour and highlight when and what maintenance is required. Furthermore, the platform leverages a LLM to link near-real time engineering data with manuals, log files and other textual information to give your organisation deep insights into the health of your systems.

Our solution is already serving customers in the aerospace, rail and airport sectors.

Visit Rheinberry's website: https://www.rheinberrv.com/

Contact us for more information or to discuss a specific problem, request a free demo or book a deep dive session to investigate your ROI

Our solution delivers real benefits

- Cost reductions
- Regain control of maintenance
- Reduced likelihood of faults and failure

Our implementation roadmap consists of 6 steps each of which provide you with an option to pause or opt-out at any stage:

1. Discovery/technology demonstrator (2 weeks)



2. Service Design (6 weeks)

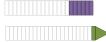




4. Pilot/Test (6 weeks)

5. Bollout and continuous improvement (ongoing)

6. Ongoing Al governance and



benefits tracking (Sustained process)

Predictive Maintenance can save up to 30% across a range of maintenance cost elements.

Contact us to learn more info@rheinberrv.com