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AI labs

PREDICTIVE MAINTENANCE

Predict equipment problems before they become downtime.

Use existing machine and sensor data to identify developing faults, predict breakdown risk and prioritise maintenance.

DRILL RIGS • HAUL TRUCKS • MOBILE MINING EQUIPMENT

DRILL RIG PREDICTIVE MAINTENANCE

YOUR RIGS ALREADY PRODUCE THE DATA

Engine, compressor, hydraulic, pressure, temperature, electrical, drilling and machine-control data can contain patterns that develop before equipment failure.

DETECT DEVELOPING FAULTS
Identify abnormal operating behaviour before conventional alarms.

IDENTIFY CONTRIBUTING FACTORS
Identify abnormal operating behaviour before conventional alarms.

PREDICT BREAKDOWN RISK
Identify equipment moving toward known failure conditions.

PRIORITISE MAINTENANCE
Focus maintenance resources on equipment showing genuine developing risk.

DATA → DETECT → ANALYSE → PREDICT → ACT

MOBILE EQUIPMENT - PROVEN RESULTS

PREDICTING MOBILE EQUIPMENT BREAKDOWNS

Historical machine data was analysed using customised machine-learning models to identify operating patterns associated with developing breakdown conditions.

92%
BREAKDOWN DETECTION

0.9%
PREMATURE ALARMS / MONTH

EARLIER WARNING → BETTER MAINTENANCE PLANNING → LESS UNPLANNED DOWNTIME

OTHER INDUSTRIAL APPLICATIONS

90%+
PREDICTION ACCURACY

1 HR
ADVANCE WARNING

Industrial centrifuge case: predicting developing high-vibration conditions from historical operational data.

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PREDICTIVE MAINTENANCE

Turn existing operational data into earlier, better decisions.

sales@september.ai

CALL FOR A QUOTE

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