



Accelerating the pace of engineering and science

The leading developer of mathematical computing software for engineers and scientists.



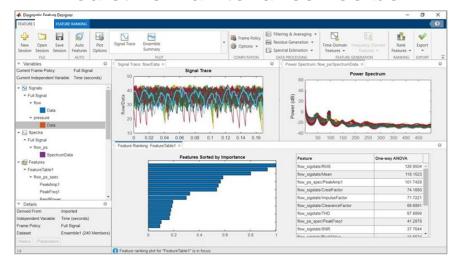
Our Products

MATLAB is a programming environment for algorithm development, data analysis, visualization, and numeric computation.

Simulink is a block diagram environment for designing, simulating, and testing systems.

More than 120 add-on products for specialized tasks.

Predictive Maintenance Toolbox







MathWorks Today



6000+ staff

in 34 offices around the world



\$1.25+ billion

in revenue







Our Customers

Millions of engineers and scientists worldwide use MATLAB and Simulink.



5 million+

users in over 180 countries



100,000+

businesses, governments, and universities



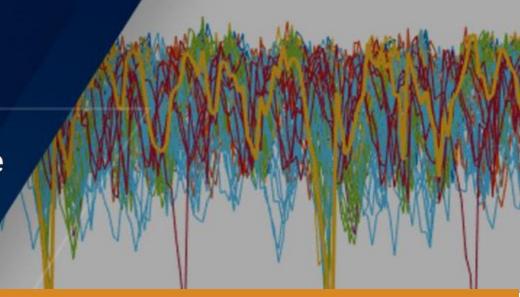
All the top 10 automotive and aerospace companies

Fortune: 2021 Global 500 auto companies FlightGlobal: 2020 Top 100 aero companie



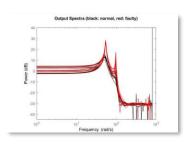
Predictive Maintenance Toolbox

Design and test condition monitoring and predictive maintenance algorithms

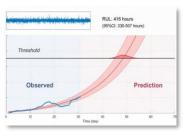




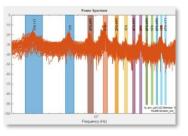
Feature Engineering



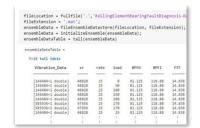
Fault and Anomaly Detection



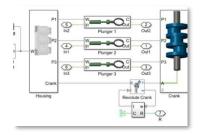
RUL Estimation



Application-Specific Algorithms



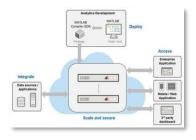
Data Management and Preprocessing



Synthetic Data Generation



Embedded Deployment

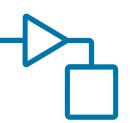


Cloud Deployment





Algorithms



Model Components and Systems





Apply your engineering expertise to design algorithms



Design Predictive Algorithms

Detect anomalies, identify faults, and estimate remaining useful life with physics-based features and low-code AI

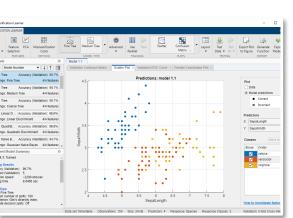




Interactive apps for predictive maintenance algorithm development



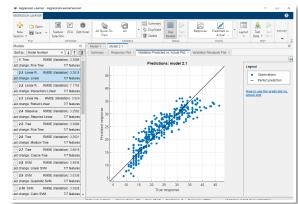
Signal Labeler



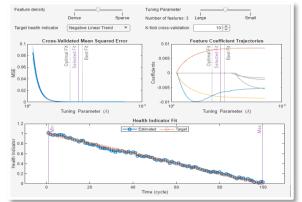
Classification Learner

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Diagnostic Feature Designer



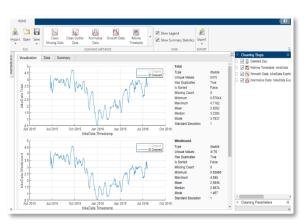
Regression Learner



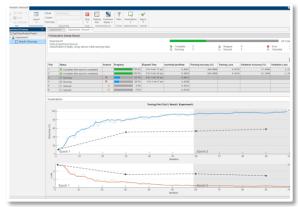
Health Indicator Designer



Deep Network Designer



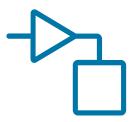
Data Cleaner



Experiment Manager

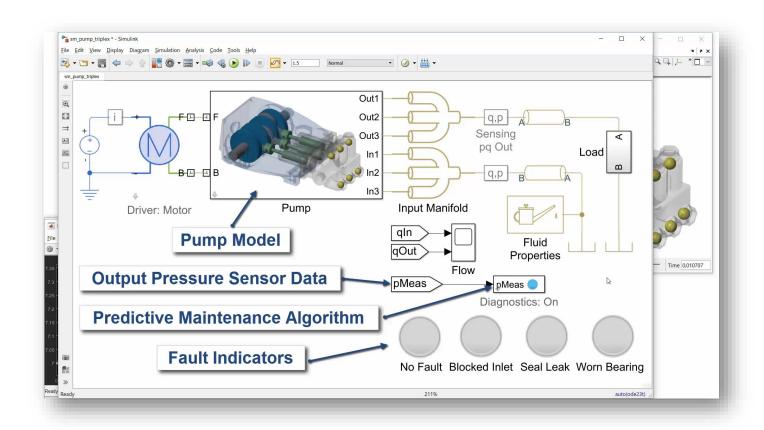


Generate synthetic data using system and component models



Model Components and Systems

Reuse models from design, generate synthetic sensor data, build and integrate digital twins

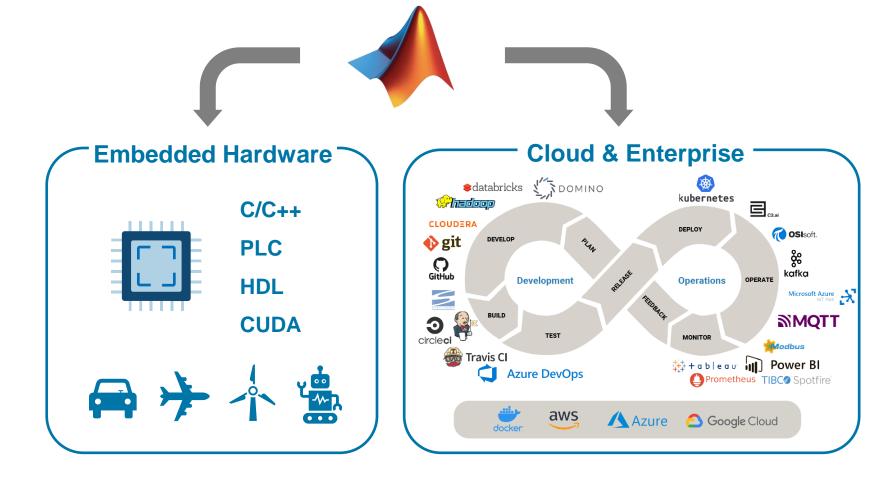




Deploy to **your choice** of embedded hardware, or integrate with a variety of platforms in the cloud



Integrate with IT/OT systems in the cloud, or generate C/C++ code for real-time processing

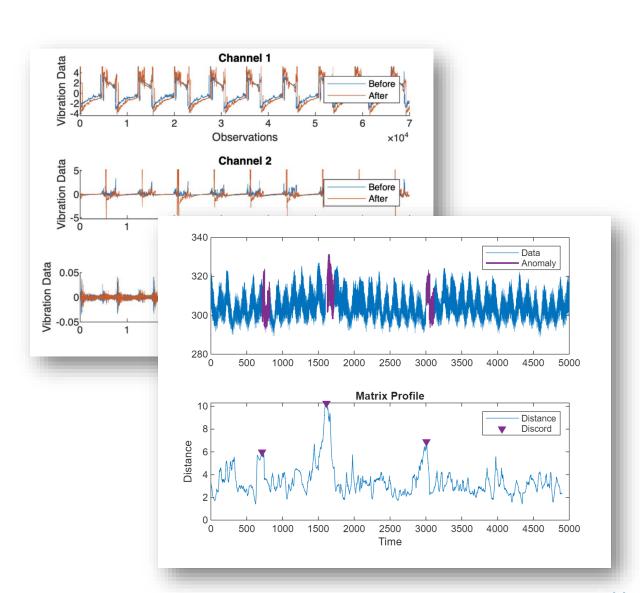




Tech Demo: Time Series Anomaly Detection with MATLAB

Tuesday 10:45 - 12:15

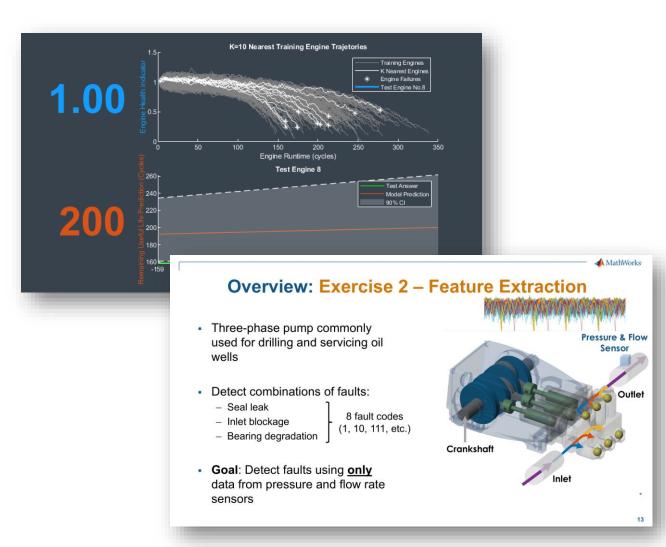
- Overview of new MATLAB capabilities for Predictive Maintenance and Anomaly Detection
- Real world examples for unsupervised anomaly detection on time series data
- Interactive tools like Diagnostic Feature
 Designer and Classification Learner
- Plenty of time for Q&A with MathWorks engineers





Hands-On Workshop: *Predictive Maintenance with MATLAB*Thursday 9:30 - 11:00

- No need to install anything: explore examples using MATLAB Online in your browser
- All software licenses provided
- Just bring a fully charged laptop







MathWorks®

Accelerating the pace of engineering and science

Visit our booth to learn more about MATLAB and Simulink for Predictive Maintenance



Rachel Johnson
Principal Product Manager
Predictive Maintenance Toolbox



Bora EryilmazPrincipal Software Engineer
Predictive Maintenance Toolbox



Sammit Jain
Senior Application Engineer
Al Products