Automated Machine Learning and Manufacturing

Manufacturing is a hotbed of AI innovation, from R&D to real-time production applications. With the growing variety of data, enabled by IoT integrations and smart products, it’s paramount to maintain scalability and accuracy of generated predictions. Check out these manufacturing use cases of automated machine learning that improve R&D efforts, production analytics, and operational performance.

1. IMPROVE PRODUCTION
   - Refine Root Cause Analysis (RCA)
     - 97% Potential time savings for root cause analysis augmented by machine learning.
   - Improve Production Defect Detection
     - 50% The potential productivity increase for fault detection and prevention.
   - Streamline Predictive Maintenance
     - 20% The potential cost savings associated with decreased maintenance downtime.
   - Improve Manufacturing Yield
     - 20% The potential savings in material costs due to improved production yield analytics.

2. STREAMLINE R&D
   - Optimize Product Design
     - $340 MILLION Planned budget for AI-enabled R&D in manufacturing.
     - 200x Speed improvement for the development of new models and product configurations.
   - Improve Testing
     - 10% Potential reduction in product development cycle time.

3. ADVANCING SALES & MARKETING
   - Sales Forecasting
     - 65% Potential reduction in sales forecast error through AI.
   - Lead Scoring
     - 72% Percentage of high-performing marketing teams using AI for lead scoring.

4. THE IMPACT DOESN’T STOP THERE
   - Smart products: embed machine learning to enable data-driven decision-making.
   - Improve classification of sensor values
   - Transform supply chain analysis
   - Improve production level analytics
   - Improve marketing attribution
   - Other specific use cases include:
     - Potential reduction in lost sales through optimized supply chain forecasting.
     - Percentage of high-performing marketing teams using AI for product recommendations and predictive lead scoring.

LEARN MORE ABOUT AUTOMATED MACHINE LEARNING AND WHAT IT CAN DO FOR YOUR MANUFACTURING COMPANY

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