

Case Study

AWS-led Quality Control, Enhanced Efficiency for Leading Automotive OEM



Client

The client is a Japanese multinational conglomerate manufacturer of automobiles, motorcycles, and power equipment.



Client Ask

01

Reduce time and
improve the efficiency
of quality inspection
process

02

Eliminate manual
errors during
quality check

03

Accelerate root
cause detection of
the defect

LTIMindtree Solution

- Computer vision-based solution@Edge with the help of AWS services for porosity detection on cast aluminum cylinder head on machine line of powertrain plant.
- Processing decisions on cloud-based ML models by analyzing images/videos captured by specialized cameras.
- Trained the ML model for better accuracy and decisions and built operator interface for faster decision-making.
- Migrated solution from cloud to EDGE hardware and validated model precision and accuracy.

Business Benefits

01

100% defect detection
and quality conformity

02

Faster corrective
actions

03

Wastage control &
refabricating
recoverable finished
products

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