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 pf 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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