



Case Study

Computer Vision-based Solution for Quality Control for Leading Automotive OEM

Client is a fortune 100 automobiles manufacturer that combines the power of robotics, AI, and energy solutions to bring the freedom of mobility to over 150 countries and territories around the world.



Business Challenges

- ✓ Reduce time and improve efficiency of quality inspection process
- ✓ Eliminate manual errors during quality check
- ✓ Accelerate root cause detection of the defect

LTIMindtree Solutions

- ✓ Developed computer-vision based solution @ Edge with help of AWS services for porosity detection on cast aluminum cylinder head on machine line of powertrain plant
- ✓ Processing decisions on cloud-based ML model 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



About LTIMindtree

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 82,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <https://www.ltimindtree.com/>.