

Engine Character Inspection



Client

Our client is an automobile manufacturer in India. As of July 2018, it had a market share of 53% of the Indian passenger car market. Introduced in the year 1981 to the Indian market and with more than 40,000 employees, our client has been one of the most successful automobile manufacturers in India.


Problem Faced

- Online reading of characters on the engine part on the production line.
- Manually checking the defects was a tedious and error prone task.

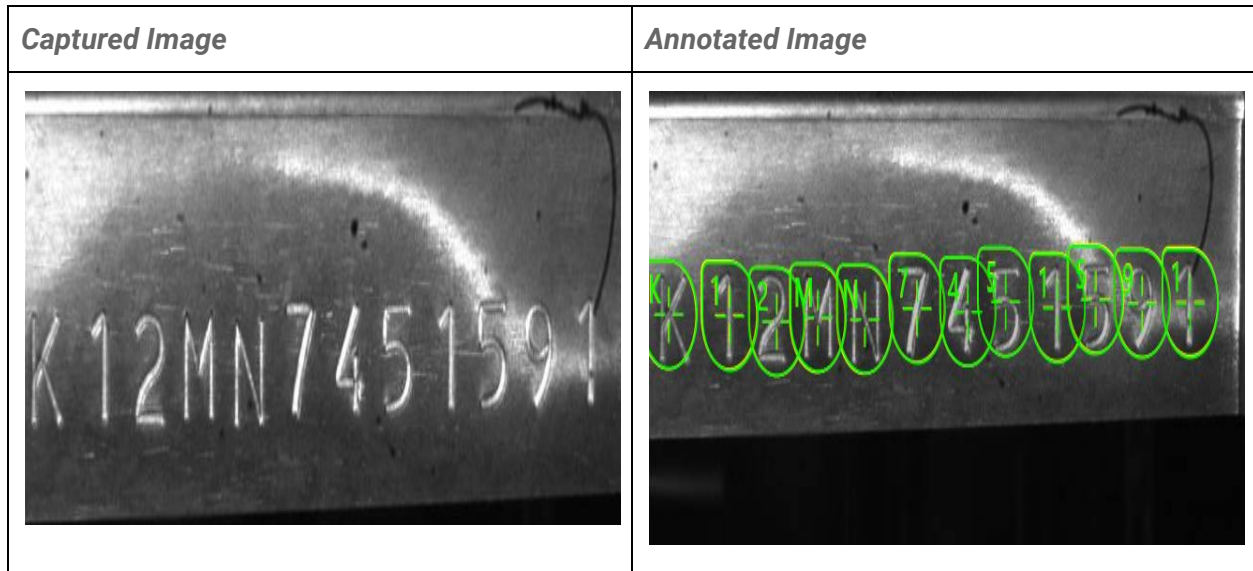
Technology introduced by Qualitas

Artificial Intelligence & Deep Neural Network (DNN) which helps in optimal decision making and generating accurate results of Image processing. Compared to traditional OCR algorithms, AI-based OCR is far more accurate, resulting in 100% accuracy. Not only is it more accurate, but it's very easy to maintain and update when new characters and letters are to be added to the recognizable character list.

Solution

- The Engine on a pallet enters the inspection region and the presence of the pallet was sensed by the sensor & trigger was generated for image acquisition (MSIL Scope).
 - RFID data with Chassis No was sent to Vision System through PLC (MSIL Scope). Upon image acquisition, the acquired image was processed and OCR operation was done to read the engine chassis no.
 - The read characters were displayed in the Qualitas GUI. Results (OK/NOT OK) along with the RAW images were sent to the server.
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Images




Results

The proposed solution works for all variants.

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