



# PREDICTIVE ANALYSIS

## Overview

Tekion is building the world's best business applications on the cloud starting with the automotive retail industry and inherently use cutting-edge technologies like big data, machine learning/AI, and human computer interaction (voice, touch, vision, sensors and IoT). They are inventing new technology along the way to overcome barriers and solve big problems for a personalized and seamless consumer experience

McKesson is an American company distributing pharmaceuticals and providing health information technology, medical supplies and care management tools

## Business Need

- ✔ Combine their manufacturing expertise into data analytics and machine learning
- ✔ Improved quality: prediction, prevention and automation using self-learning algorithms
- ✔ Structured Risk Based Testing, Improved risk management through prioritization of critical areas & Reduced Automation effort
- ✔ Deliver predictions on future downtime problems

## Client Situation

- ✔ Quarterly operations review revealed a 3.6% increase in downtime in the production line, compared to the previous quarter
- ✔ Increased cost due to defect detection
- ✔ Traditional testing fails to adapt to real-time learning, lacks feedback loop
- ✔ Patterns which results in gaps in customers' expectations



## Recommended Solution

SmartQE MACHINE LEARNING together with analytics to drive automation and innovation, improving Automation QA efficiencies. Artificial intelligence (AI) algorithms learn from test assets to provide intelligent insights like application stability, failure patterns, defect hotspots, failure prediction, etc. SmartQE has developed an in-house, Machine learning platform with Tensorflow which will help in multiple phases of the software testing life cycle, leading to more efficient Automated Test execution and reduced effort



## Results

- ✔ Test case optimization - Up to 15 percent effort savings due to identification of similar test cases
- ✔ Improved risk management through prioritization of critical areas & Reduced Automation effort
- ✔ Reduced time of manual testing during feature enhancements and development
- ✔ One integrated platform: Adaptable to client technology landscape, built on open source stack
- ✔ Traceability: Missing test coverage against requirement as well as, identifying dead test cases for changed or redundant requirement
- ✔ Faster time to market: Significant reduction in Testing efforts with complete E2E test coverage
- ✔ Significant reduction in Testing efforts with complete E2E test coverage



## Technologies

Google Tensorflow



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