Computer Vision Analytics for identifying misplaced items in a Retail Store

BOSCH

THE CLIENT

One of the **largest clothing companies in US.**

THE CHALLENGE

Need for experienced staff for merchandise organization due to frequent misplacement of clothes picked up by customers for trials.

Frequent rejig of store layout, new schemes and new product lines make it further difficult to managemerchandise placement during operational hours.

THE SOLUTION

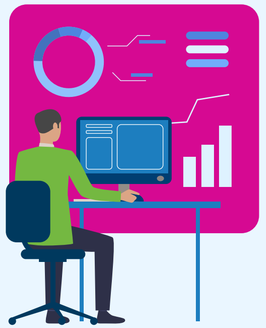
RBEI implemented an automated process of detecting misplaced items in the store, without manual intervention.

Application of Computer Vision techniques in order to stitch together composite image of store layout and identify changes to layout

Employ clustering techniques on RFID data to pair clothes and EPCs with their corresponding furniture and fixtures inside the store

Employ state detection algorithms to identify and categorize misplaced clothes during operational hours

KEY SOLUTION FEATURES



Application of advance tech. such as Computer Vision, Machine learning and RFID analytics to build a self-learning system

Future fusion with additional sensor data for automated inventory management, improved store planning and visual merchandising recommendations

KEY SOLUTION FEATURES

Estimated improvement in manpower efficiency by over 30%

Improved customer satisfaction by reducing discrepancies in product placements

Improved store planning and operations