

Leveraging NLP to Improve Customer Service and Sales

Leading Personal Computing firm wanted to improve efficiency of their service process which was annually costing them over \$50million and over 0.5 million in unused parts



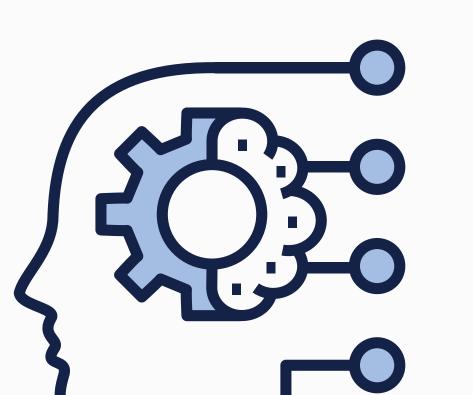
Context:

Client's customer care service agents document their interaction with customers when a service request is raised and identify the parts to be ordered



Before State:

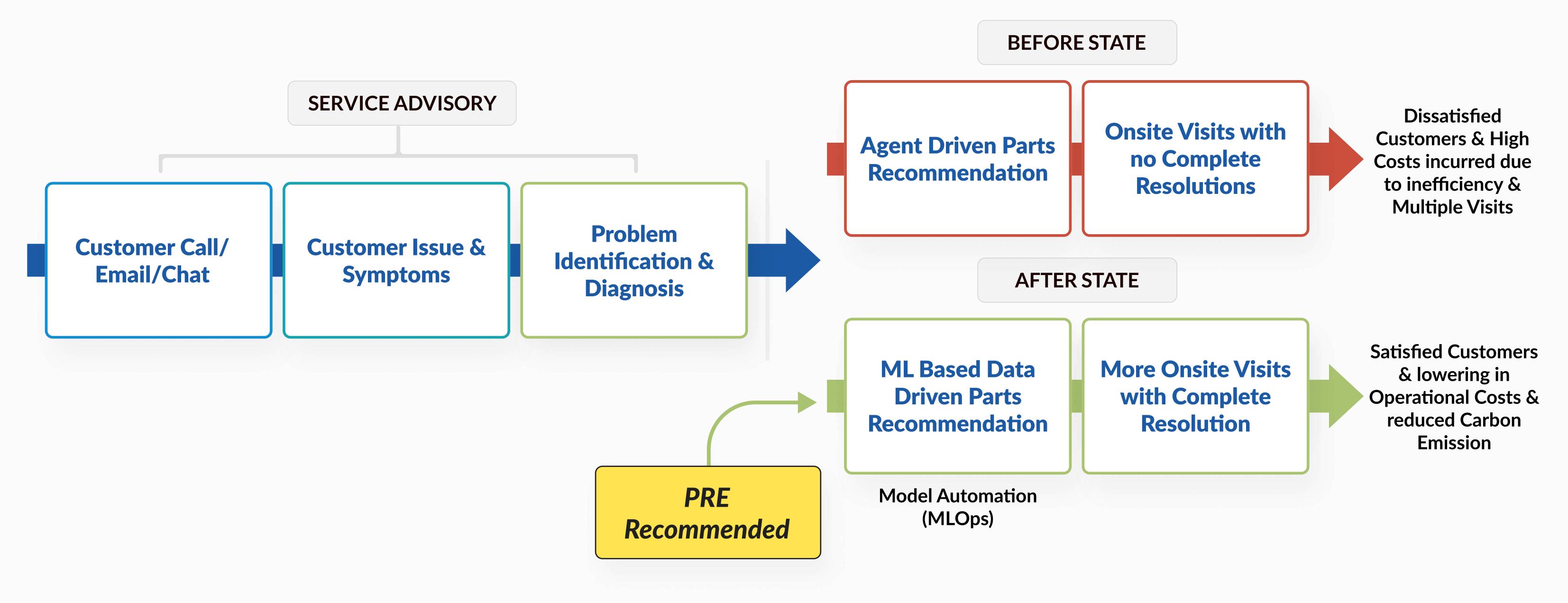
- Parts replacement is based on the documented diagnosis reports, agent's knowledge & experience only resulting in ~250K onsite visits with wrong parts
- Inefficient process leading to about ~500K Unused Parts, ~\$50M Inefficiency cost annually and Customer Dissatisfaction



LatentView's Data Driven Real-Time Recommendation Engine:

- Used PRE Product Recommendation Engine to replace manual, agent-driven approach
- Automated model training and model drift using the MLOps framework in a

complete Azure ecosystem including Azure Databricks, Azure Kubernetes





Impact:

- Improved accuracy dramatically to 80% from 65%
- Scaled to 6 different product categories under personal systems across the Globe



PRE is an open-source machine learning framework for NLP

- Leveraged by a Search Engine Giant in their Search Engine
- Best NLP method to understand context-heavy texts
- Supports 70+ languages
- Pre-trained & combines Mask Language Model (MLM) and Next Sentence Prediction (NSP)

To know more, mail us at **consultingservices@latentview.com** or **marketing@latentview.com** www.latentview.com

