

Demand Forecasting

Business Impact numbers

90%

Accuracy for 70% of network. Overall 80+% (post covid) 10%+ savings in labor cost

Time to execution

3

Weeks to Pilot

3-5

Months Full Execution

Problem Overview

Develop an ML based demand forecast to enable improved labor planning and increase overall service levels for customers

High level approach/solution framework

- Inbound/Outbound forecast – Improve long term forecast accuracy at an aggregate level using ML. Plan labor requirement and maintain a safety pool to protect against variability
- Forward looking factor – Integrate open order data into prediction models
- Dashboard visualization – For consumption and tracking purposes

Azure architecture or Azure components used



ADF Pipelines



Azure MS-SQL Database



Microsoft
Power BI



Usage stats at a high level

8

techniques in ensemble for 1200 models every week