

ABSTRACT

The embodiments of the present disclosure provide systems and methods for outbound forecasting, comprising receiving an initial distribution of priority values to each fulfillment center (FC) in each region, running a simulation, using a simulation algorithm, of the initial distribution, calculating an outbound capacity utilization value of each FC, determining a number of FCs comprising an outbound capacity utilization value that exceeds a predetermined threshold, feeding the simulation algorithm with the determined number of FCs to generate one or more additional distributions of priority values, generating a FC priority filter comprising an optimal set of priority values based on the one or more additional distributions of priority values, and modifying an allocation of a plurality of SKUs among a plurality of FCs based on the generated FC priority filter.